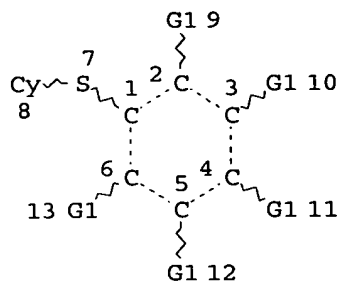


=> d que 112

L3

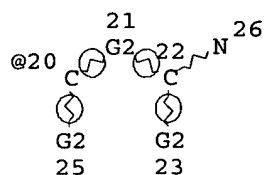
STR



Ak @14

Ak~X
@15 16O~Ak
@17 18

Cb @19



VAR G1=H/X/14/15/17/CN/NO2/19/CHO/20

VAR G2=C/O/S/N

NODE ATTRIBUTES:

NSPEC IS RC AT 26

CONNECT IS E2 RC AT 7

CONNECT IS E1 RC AT 14

CONNECT IS E1 RC AT 18

CONNECT IS E1 RC AT 19

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 19

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

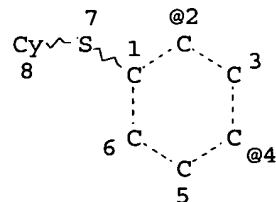
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L5 1356440 SEA FILE=REGISTRY ABB=ON PLU=ON C6/ES AND NC5/ES

L7 6794 SEA FILE=REGISTRY SUB=L5 SSS FUL L3

L8 STR



Hy @9

VPA 9-2/4 U

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 7

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 9

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 9

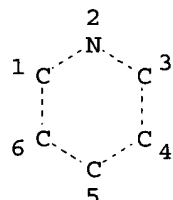
GRAPH ATTRIBUTES:

RSPEC 6

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L9 265 SEA FILE=REGISTRY SUB=L7 SSS FUL L8
L10 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L11 133 SEA FILE=REGISTRY SUB=L9 SSS FUL L10

L12 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L11

=> d l12 ibib abs hitstr 1-19

L12 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:72766 HCAPLUS

DOCUMENT NUMBER: 142:176543

TITLE: Preparation of arylalkyne derivatives having EDG
receptor antagonist effect

INVENTOR(S): Sato, Susumu; Nakamura, Takeshi; Nara, Futoshi;
Komesu, Kiyooki

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 181 pp.

CODEN: JKXXAF

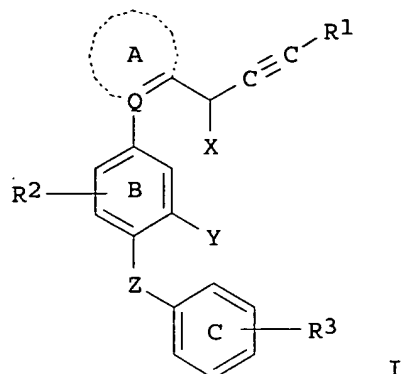
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005022986	A2	20050127	JP 2003-187530	20030630
PRIORITY APPLN. INFO.: GI			JP 2003-187530	20030630



AB The title compds. (I), or salts or esters thereof [R1 = (un)substituted C1-17 alkyl optionally containing 1 or ≥ 2 of a double or triple bond, (un)substituted benzene ring, O, S, SO, SO₂, and (un)substituted NH; R2 represents 1-3 substituents selected from H, HO, CO₂H, NO₂, halo, alkoxy, alkenyloxy, alkynyloxy, aralkyloxy, NH₂, alkylamino, alkanoylamino, alkylthio, and (un)substituted C1-6 alkyl; R3 represents 1-3 substituents selected from H, HO, aralkyloxy, alkylamino, alkanoylamino, alkylthio, CO₂H, NO₂, halo, and (un)substituted C1-10 alkyl; X = alkylamino, HO, NH₂, (un)substituted C1-6 alkoxy; Y = CO₂H, SO₃H, P(O)(OH)₂; Z = O, S, (un)substituted NH, CO, SO, SO₂, (un)substituted CH₂; ring A = (un)substituted 4- to 7-membered ring containing -Q:C- as a partial structure and optionally containing 1 or ≥ 2 of CH:CH, N, O, (un)substituted NH, S, and CO; Q = C, N] are prepared. These compds. are endothelial differentiation gene 1 (EDG-1) receptor antagonists and effective in preventing and/or treating inflammations, diseases associated with abnormal angiogenesis, cerebral vascular spasm, brain ischemia, cancer-related diseases, cerebral infarction, myocardial infarction, nephritis, pneumonia, immune diseases, Crohn's disease, colitis, or chronic diarrhea. Thus, Suzuki coupling of Me 5-bromo-2-[(4-butoxyphenyl)thio]benzoate with 2-formylphenylboronic acid in the presence of tetrakis(triphenylphosphine)palladium in a mixture of 4.6 M aqueous K₂CO₃ solution

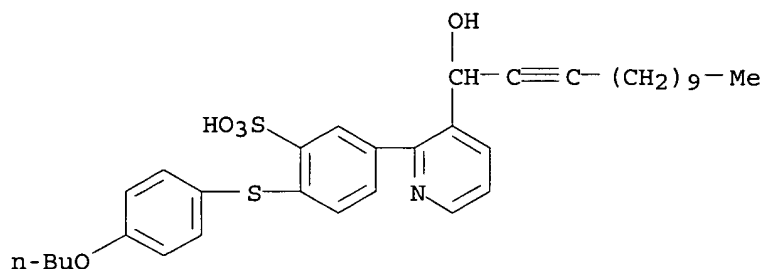
in 1,2-dimethoxyethane at 60° for 5 h to give 99% Me 4-[(4-butoxyphenyl)thio]-2'-formyl-1,1'-biphenyl-3-carboxylate (II). 2-[[7-(2-Propynyloxy)heptyl]oxy]tetrahydro-2H-pyran was treated with 1.6 M BuLi/hexane in THF at -78°, stirred for 10 min, treated dropwise with a solution of II in THF, and stirred for 1 h to give 78% Me 4-[(4-butoxyphenyl)thio]-2'-[1-hydroxy-4-[[7-[(tetrahydro-2H-pyran-2-yl)oxy]heptyl]oxy]-2-butynyl]-1,1'-biphenyl-3-carboxylate which was stirred in the presence of pyridinium p-toluenesulfonate in ethanol at 60° for 1 h to give 82% Me 4-[(4-butoxyphenyl)thio]-2'-[1-hydroxy-4-[(7-hydroxyheptyl)oxy]-2-butynyl]-1,1'-biphenyl-3-carboxylate (III). III was heated with NaOH in aqueous dioxane at 90° for 8 h to give 76% sodium 4-[(4-butoxyphenyl)thio]-2'-[1-hydroxy-4-[(7-hydroxyheptyl)oxy]-2-butynyl]-1,1'-biphenyl-3-carboxylate (IV). IV inhibited the sphingosine-1-phosphate-stimulated production of cAMP in CHO cells expressing Edg-1 with IC₅₀ of 0.020 μ M.

IT 832725-53-8P 832725-54-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

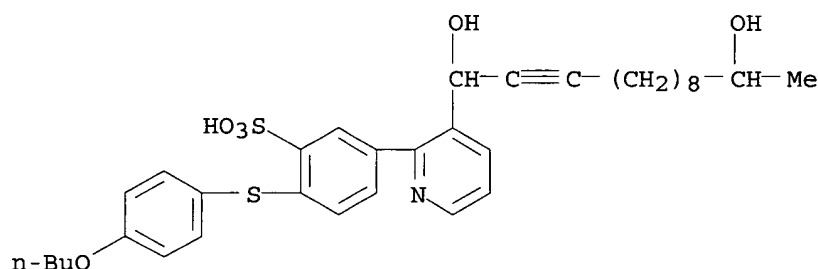
(preparation of alkyne derivs. as EDG-1 receptor antagonists)

RN 832725-53-8 HCAPLUS
 CN Benzenesulfonic acid, 2-[(4-butoxyphenyl)thio]-5-[3-(1-hydroxy-2-tridecynyl)-2-pyridinyl]-, monosodium salt (9CI) (CA INDEX NAME)



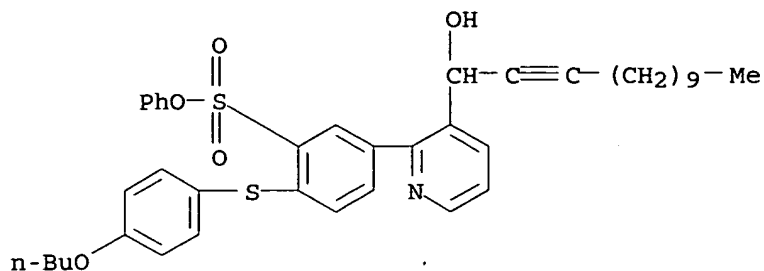
● Na

RN 832725-54-9 HCAPLUS
 CN Benzenesulfonic acid, 2-[(4-butoxyphenyl)thio]-5-[3-(1,12-dihydroxy-2-tridecynyl)-2-pyridinyl]-, monosodium salt (9CI) (CA INDEX NAME)

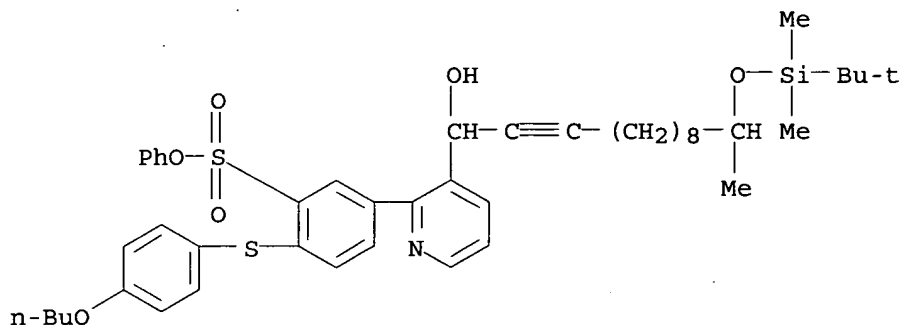


● Na

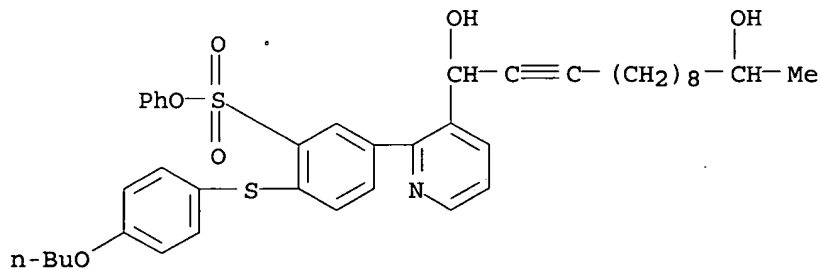
IT 832726-79-1P 832726-80-4P 832726-81-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of alkyne derivs. as EDG-1 receptor antagonists)
 RN 832726-79-1 HCAPLUS
 CN Benzenesulfonic acid, 2-[(4-butoxyphenyl)thio]-5-[3-(1-hydroxy-2-tridecynyl)-2-pyridinyl]-, phenyl ester (9CI) (CA INDEX NAME)



RN 832726-80-4 HCAPLUS
 CN Benzenesulfonic acid, 2-[(4-butoxyphenyl)thio]-5-[3-[12-[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-hydroxy-2-tridecynyl]-2-pyridinyl]-, phenyl ester (9CI) (CA INDEX NAME)

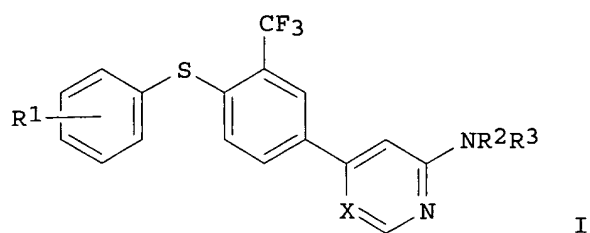


RN 832726-81-5 HCAPLUS
 CN Benzenesulfonic acid, 2-[(4-butoxyphenyl)thio]-5-[3-(1,12-dihydroxy-2-tridecynyl)-2-pyridinyl]-, phenyl ester (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:1068277 HCAPLUS
 DOCUMENT NUMBER: 142:155913
 TITLE: Amino-substituted heterocycles as isosteres of trans-cinnamides: design and synthesis of heterocyclic biaryl sulfides as potent antagonists of LFA-1/ICAM-1 binding
 AUTHOR(S): Wang, Gary T.; Wang, Sheldon; Gentles, Robert; Sowin, Thomas; Leitza, Sandra; Reilly, Edward B.; von

CORPORATE SOURCE: Geldern, Thomas W.
Global Pharmaceutical Research & Development, Abbott
Laboratories, Abbott Park, IL, 60064, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005),
15(1), 195-201
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:155913
GI



AB 2-Amino-4-Ph pyridine and to a lesser extent, 4-amino-6-Ph pyrimidine were established as isosteres of trans-cinnamide moiety. Applying this isosterism to previously reported p-arylthio cinnamides resulted in the identification of 4-amino-6-(p-arylthio)phenylpyrimidines and 2-amino-4-(p-arylthio)phenylpyridines I (X = N, CH, R1 = 2-Me2CH; X = CH, R1 = 2-MeO, 3,4-OCH2CH2O; R2R3N = pyrrolidinyl, 4-hydroxypiperidinyl, 4-formyl-1-piperazinyl, etc.) as potent antagonists of LFA-1/ICAM-1 binding.

IT 388117-88-2P 388117-90-6P 388117-91-7P
388117-93-9P 388117-94-0P 388117-96-2P
388117-97-3P 388117-98-4P 388117-99-5P
388118-00-1P 388118-02-3P 388118-06-7P
388118-07-8P 388118-08-9P 388118-09-0P
388118-11-4P 388118-12-5P 388118-14-7P
388118-15-8P 388118-16-9P 388118-17-0P
388118-18-1P 388118-20-5P 388118-22-7P
388118-24-9P 415718-12-6P 831189-91-4P
831189-92-5P 831189-93-6P 831189-94-7P
831189-95-8P 831189-96-9P 831189-97-0P
831189-98-1P 831189-99-2P 831190-00-2P
831190-01-3P 831190-02-4P 831190-04-6P
831190-07-9P 831190-09-1P 831190-10-4P
831190-11-5P 831190-12-6P 831190-13-7P
831190-14-8P 831190-15-9P 831190-16-0P
831190-17-1P 831190-18-2P 831190-19-3P
831190-20-6P 831190-21-7P 831190-22-8P
831190-23-9P 831190-24-0P 831190-25-1P
831190-26-2P 831190-27-3P 831190-28-4P

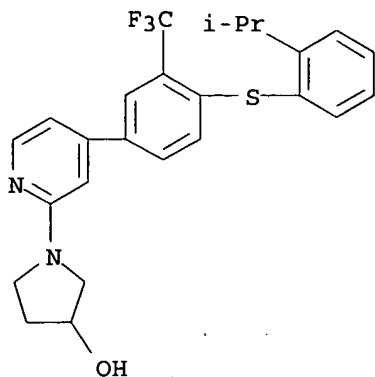
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of amino-substituted arylthiophenyl oxazoles, thiazoles, pyridines and pyrimidines as isosteres of trans-cinnamides and potent antagonists of LFA-1/ICAM-1 binding)

RN 388117-88-2 HCAPLUS

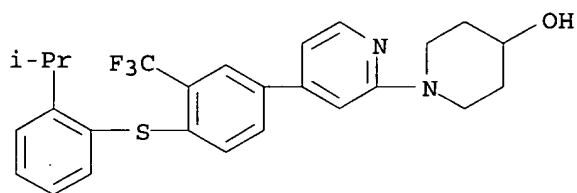
CN 3-Pyrrolidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-

(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



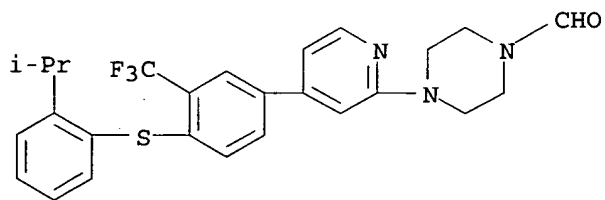
RN 388117-90-6 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



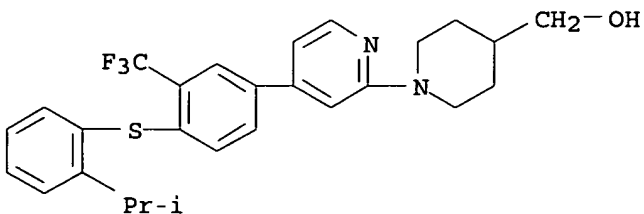
RN 388117-91-7 HCAPLUS

CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-93-9 HCAPLUS

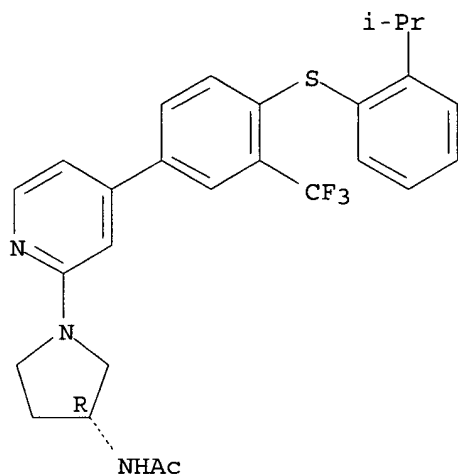
CN 4-Piperidinemethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-94-0 HCAPLUS

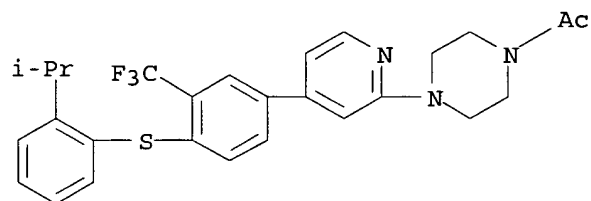
CN Acetamide, N-[(3R)-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



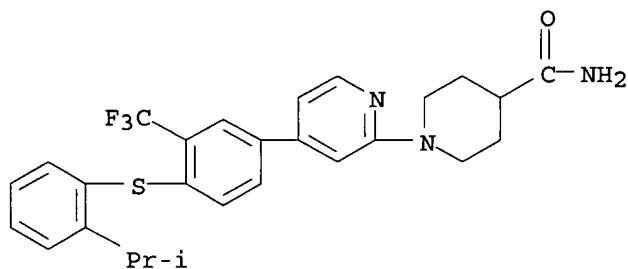
RN 388117-96-2 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-97-3 HCAPLUS

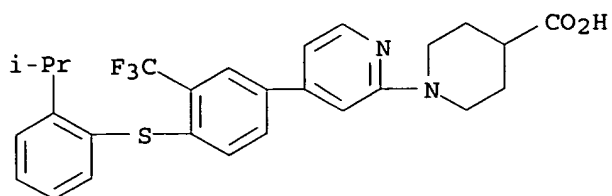
CN 4-Piperidinecarboxamide, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-98-4 HCAPLUS

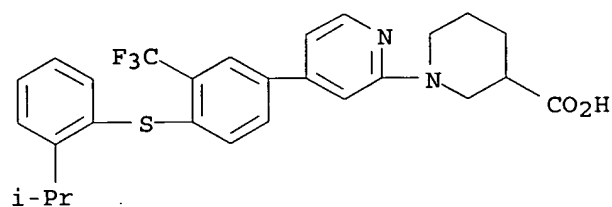
CN 4-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-

(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



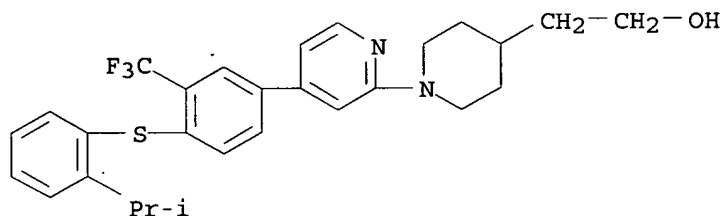
RN 388117-99-5 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-00-1 HCAPLUS

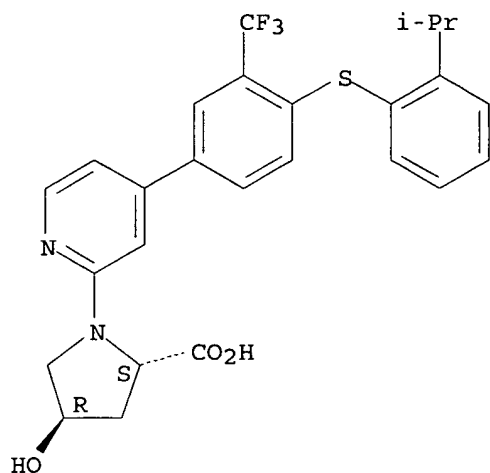
CN 4-Piperidineethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-02-3 HCAPLUS

CN L-Proline, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

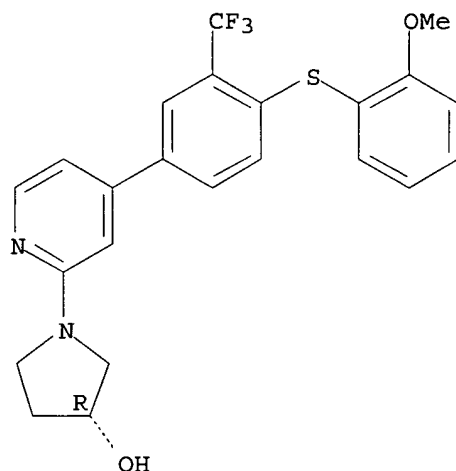
Absolute stereochemistry.



RN 388118-06-7 HCAPLUS

CN 3-Pyrrolidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

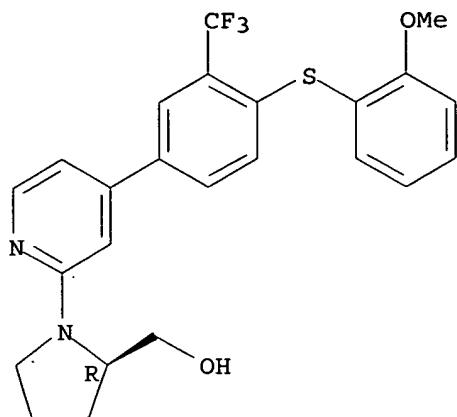
Absolute stereochemistry.



RN 388118-07-8 HCAPLUS

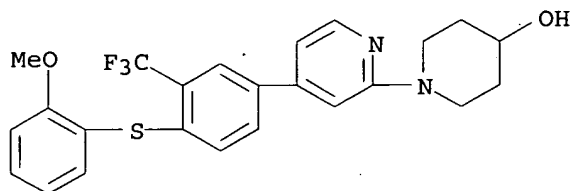
CN 2-Pyrrolidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



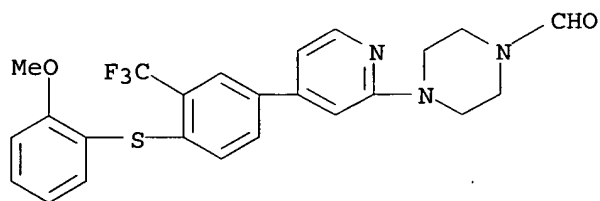
RN 388118-08-9 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



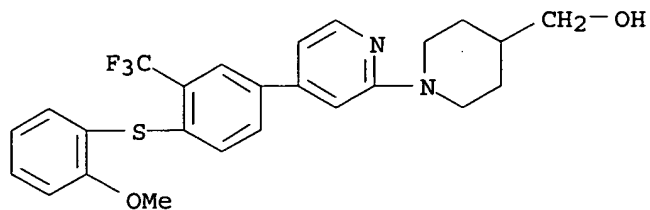
RN 388118-09-0 HCAPLUS

CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



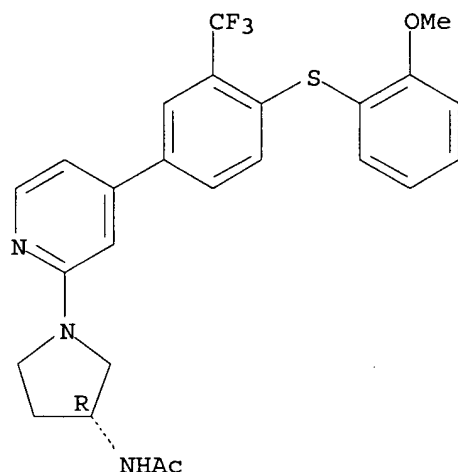
RN 388118-11-4 HCAPLUS

CN 4-Piperidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

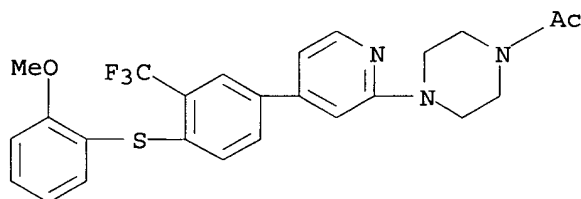


RN 388118-12-5 HCAPLUS
 CN Acetamide, N-[(3R)-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

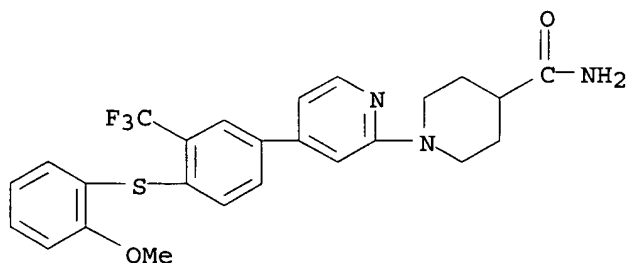
Absolute stereochemistry.



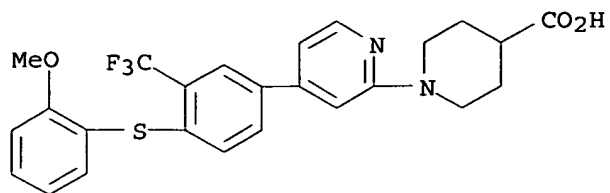
RN 388118-14-7 HCAPLUS
 CN Piperazine, 1-acetyl-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-15-8 HCAPLUS
 CN 4-Piperidinecarboxamide, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

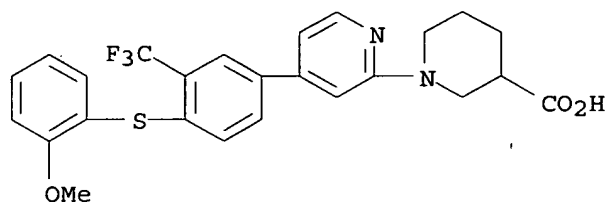


RN 388118-16-9 HCAPLUS
 CN 4-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



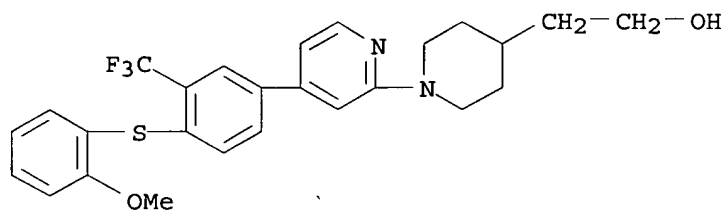
RN 388118-17-0 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-18-1 HCAPLUS

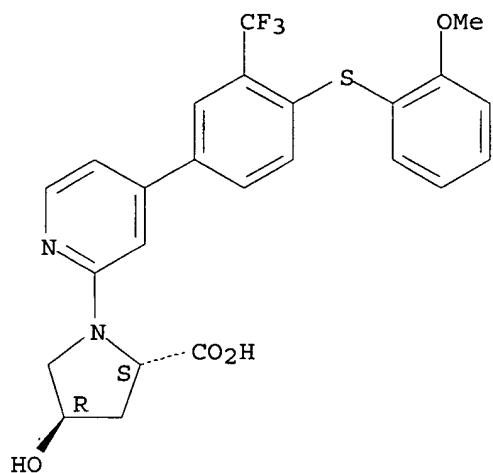
CN 4-Piperidineethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-20-5 HCAPLUS

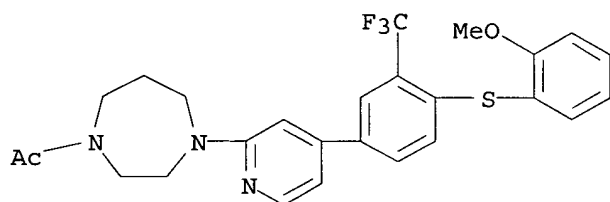
CN L-Proline, 4-hydroxy-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



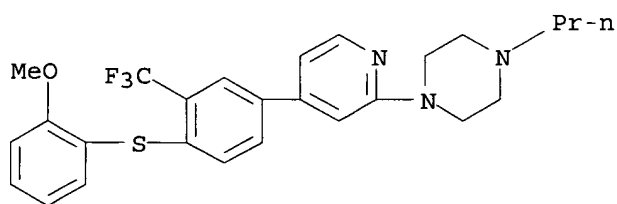
RN 388118-22-7 HCAPLUS

CN 1H-1,4-Diazepine, 1-acetylhexahydro-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



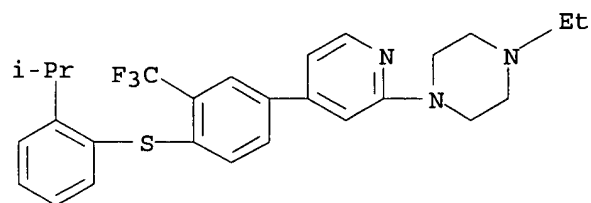
RN 388118-24-9 HCAPLUS

CN Piperazine, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)



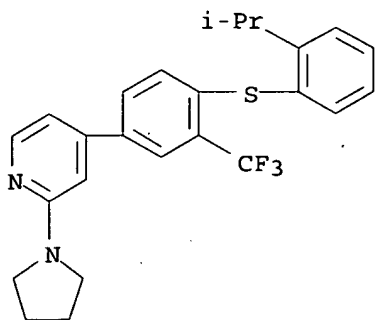
RN 415718-12-6 HCAPLUS

CN Piperazine, 1-ethyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



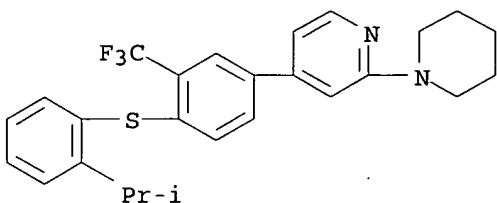
RN 831189-91-4 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



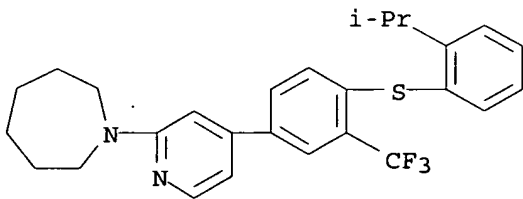
RN 831189-92-5 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-(1-piperidinyl)- (9CI) (CA INDEX NAME)



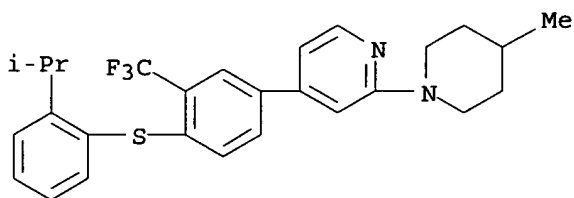
RN 831189-93-6 HCAPLUS

CN 1H-Azepine, hexahydro-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



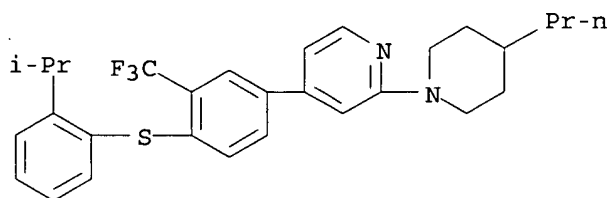
RN 831189-94-7 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-(4-methyl-1-piperidinyl)- (9CI) (CA INDEX NAME)



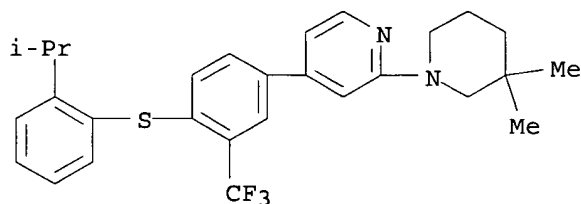
RN 831189-95-8 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-(4-propyl-1-piperidinyl)- (9CI) (CA INDEX NAME)



RN 831189-96-9 HCAPLUS

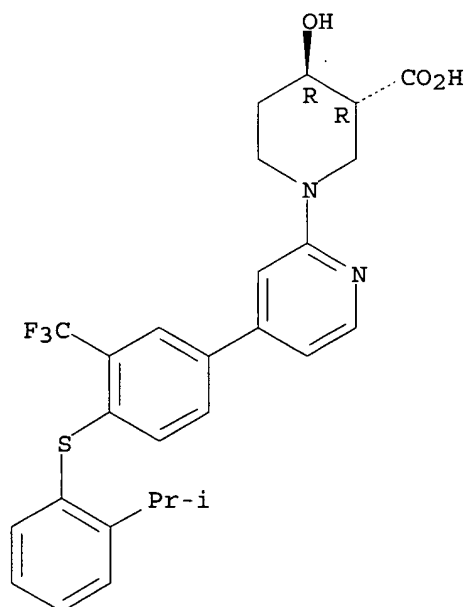
CN Pyridine, 2-(3,3-dimethyl-1-piperidinyl)-4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 831189-97-0 HCAPLUS

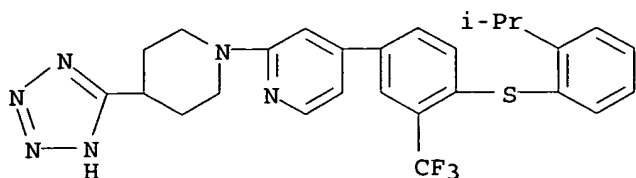
CN 3-Piperidinecarboxylic acid, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



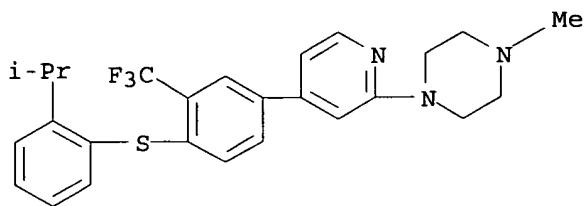
RN 831189-98-1 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-[4-(1H-tetrazol-5-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



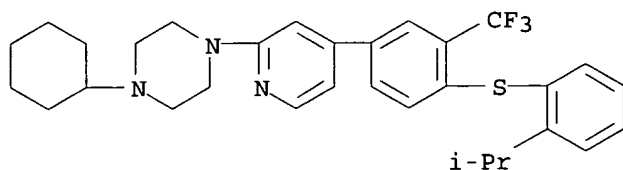
RN 831189-99-2 HCAPLUS

CN Piperazine, 1-methyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



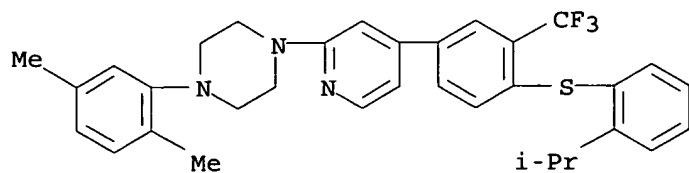
RN 831190-00-2 HCAPLUS

CN Piperazine, 1-cyclohexyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



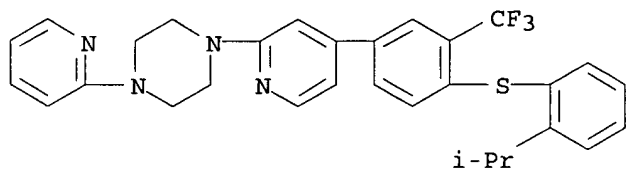
RN 831190-01-3 HCAPLUS

CN Piperazine, 1-(2,5-dimethylphenyl)-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



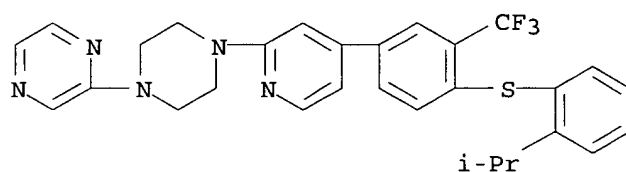
RN 831190-02-4 HCAPLUS

CN Piperazine, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 831190-04-6 HCAPLUS

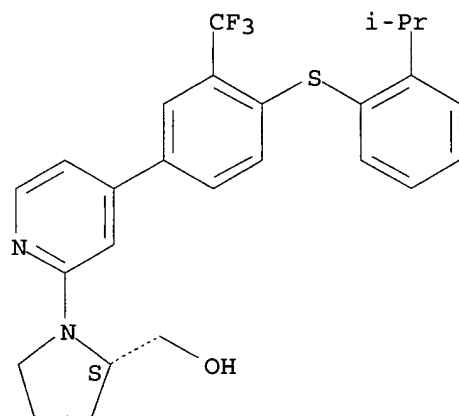
CN Pyrazine, [4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 831190-07-9 HCAPLUS

CN 2-Pyrrolidinemethanol, 1-[4-[4-[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2S)- (9CI) (CA INDEX NAME)

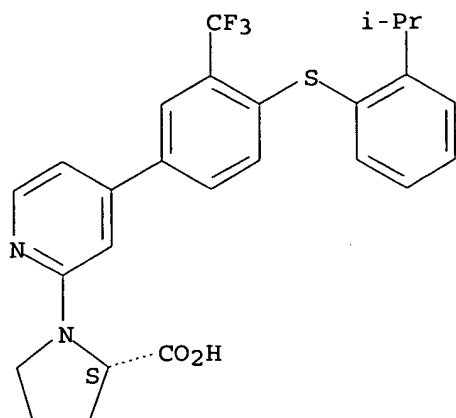
Absolute stereochemistry.



RN 831190-09-1 HCAPLUS

CN L-Proline, 1-[4-[4-[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

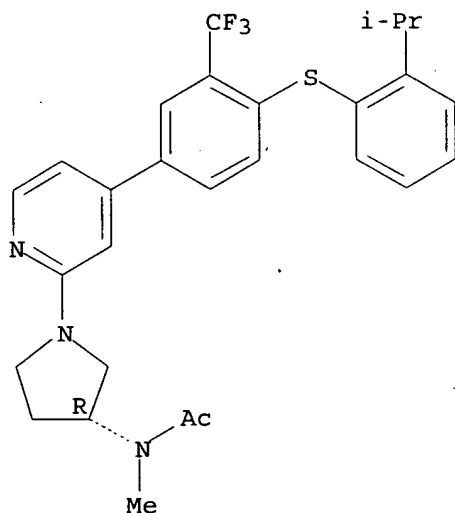
Absolute stereochemistry.



RN 831190-10-4 HCAPLUS

CN Acetamide, N-methyl-N-[(3R)-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

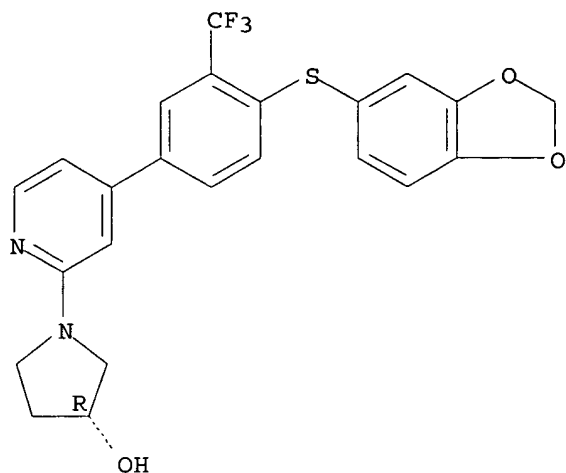
Absolute stereochemistry.



RN 831190-11-5 HCAPLUS

CN 3-Pyrrolidinol, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

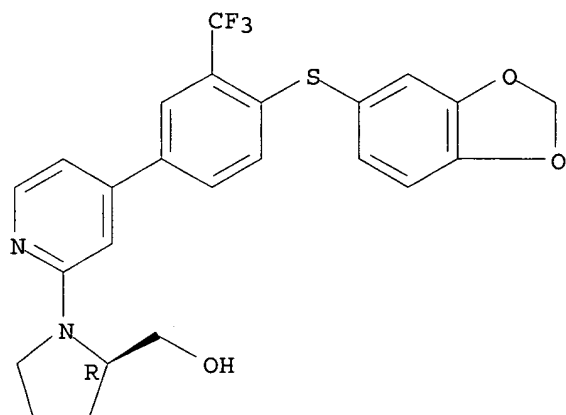
Absolute stereochemistry.



RN 831190-12-6 HCAPLUS

CN 2-Pyrrolidinemethanol, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

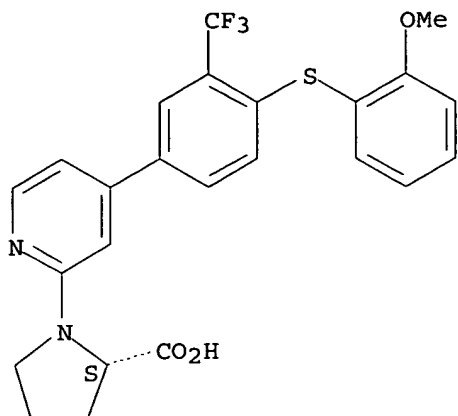
Absolute stereochemistry.



RN 831190-13-7 HCAPLUS

CN L-Proline, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

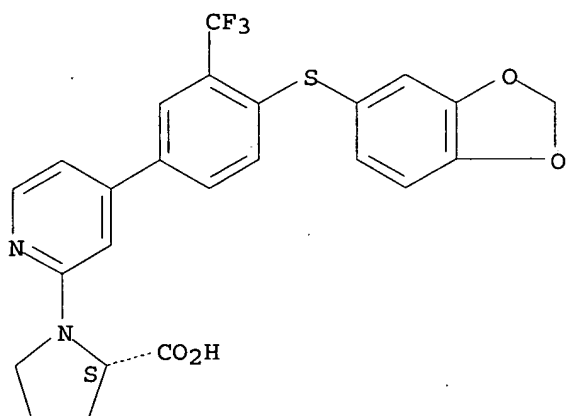
Absolute stereochemistry.



RN 831190-14-8 HCAPLUS

CN L-Proline, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

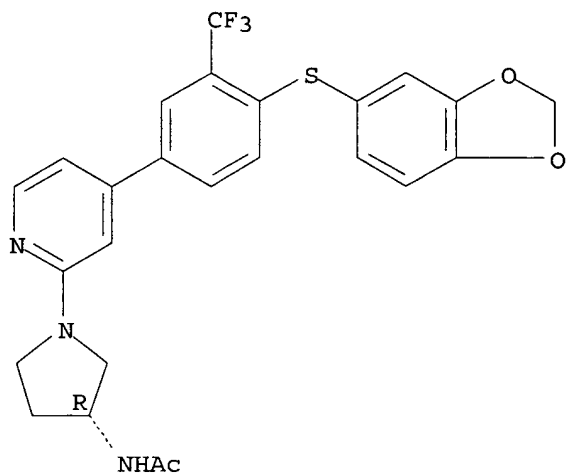
Absolute stereochemistry.



RN 831190-15-9 HCAPLUS

CN Acetamide, N-[(3R)-1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

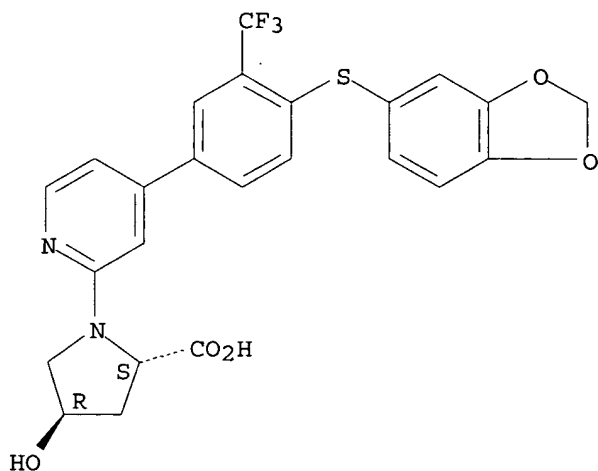
Absolute stereochemistry.



RN 831190-16-0 HCAPLUS

CN L-Proline, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

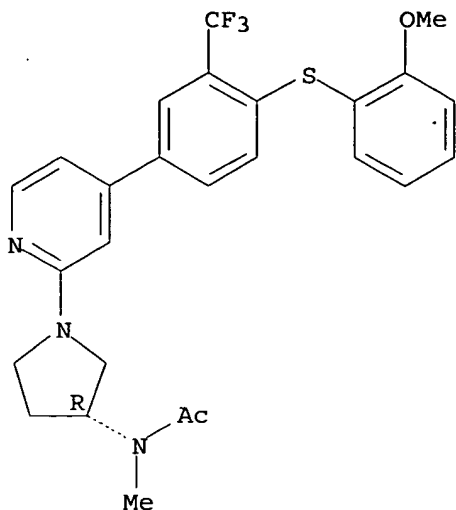
Absolute stereochemistry.



RN 831190-17-1 HCAPLUS

CN Acetamide, N-[(3R)-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)

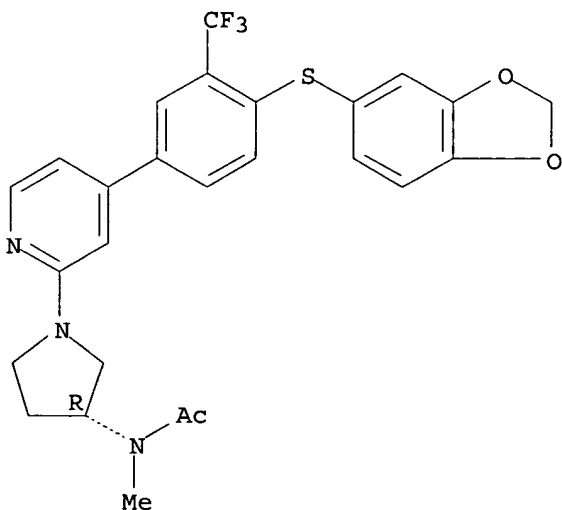
Absolute stereochemistry.



RN 831190-18-2 HCAPLUS

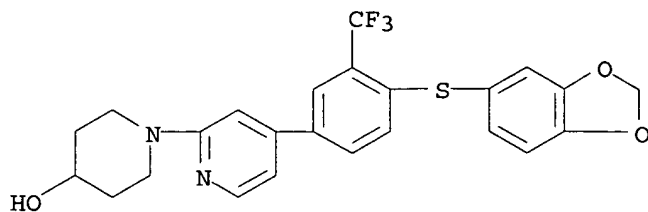
CN Acetamide, N-[(3R)-1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



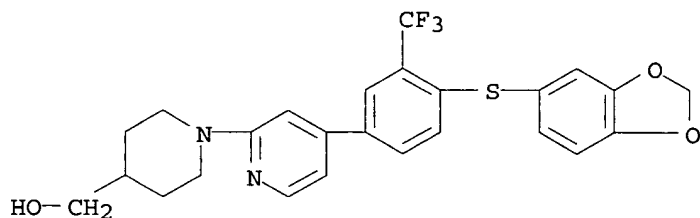
RN 831190-19-3 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



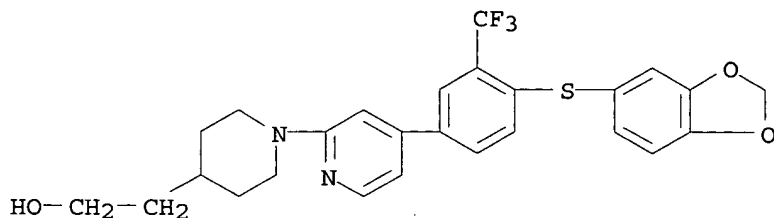
RN 831190-20-6 HCAPLUS

CN 4-Piperidinemethanol, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



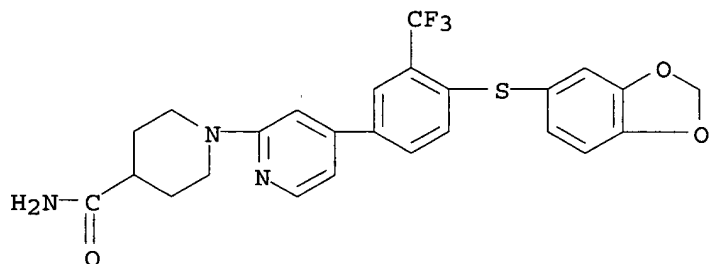
RN 831190-21-7 HCAPLUS

CN 4-Piperidineethanol, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 831190-22-8 HCAPLUS

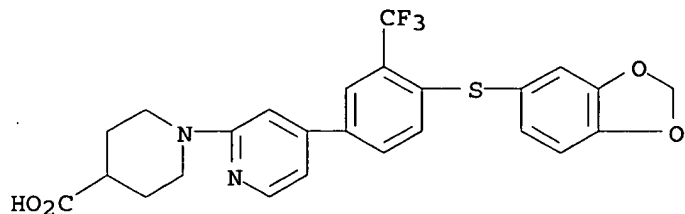
CN 4-Piperidinecarboxamide, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 831190-23-9 HCAPLUS

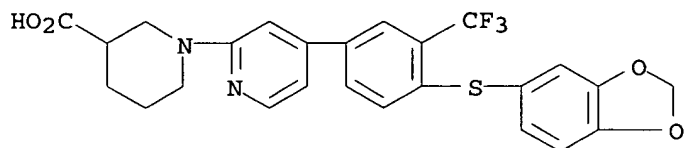
CN 4-Piperidinecarboxylic acid, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-

(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



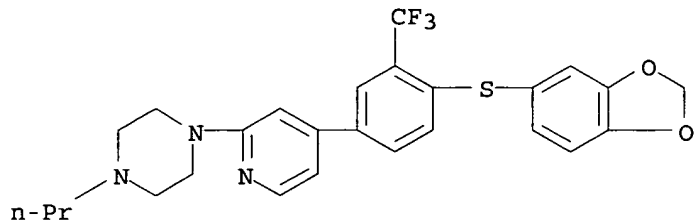
RN 831190-24-0 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



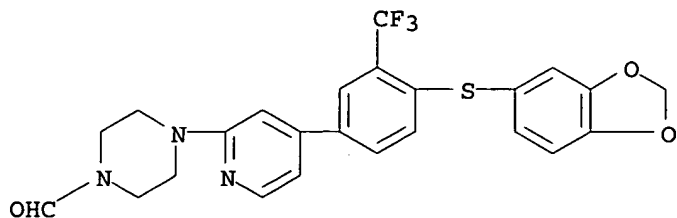
RN 831190-25-1 HCAPLUS

CN Piperazine, 1-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)



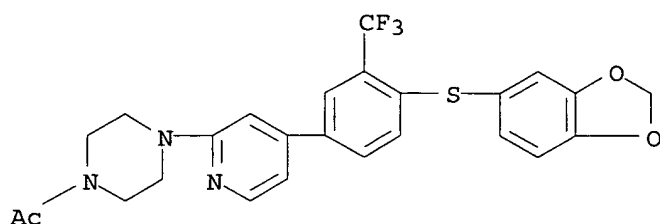
RN 831190-26-2 HCAPLUS

CN 1-Piperazinecarboxaldehyde, 4-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



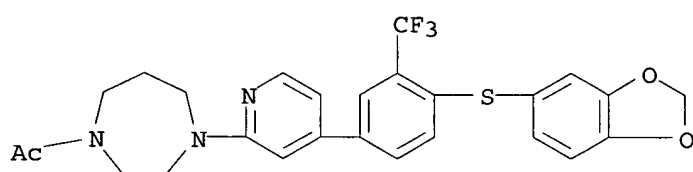
RN 831190-27-3 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 831190-28-4 HCAPLUS

CN 1H-1,4-Diazepine, 1-acetyl-4-[4-[4-(1,3-benzodioxol-5-ylthio)-3-(trifluoromethyl)phenyl]-2-pyridinyl]hexahydro- (9CI) (CA INDEX NAME)



IT 388118-61-4P 388118-62-5P 388118-65-8P

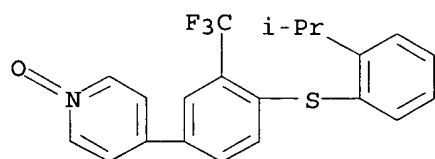
388118-66-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of amino-substituted arylthiophenyl oxazoles, thiazoles, pyridines and pyrimidines as isosteres of trans-cinnamides and potent antagonists of LFA-1/ICAM-1 binding)

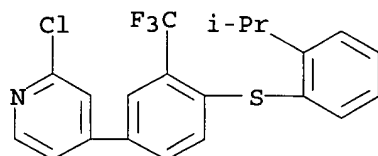
RN 388118-61-4 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 388118-62-5 HCAPLUS

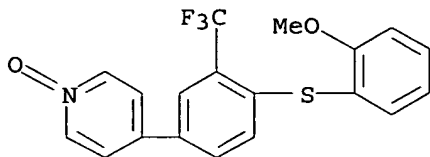
CN Pyridine, 2-chloro-4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



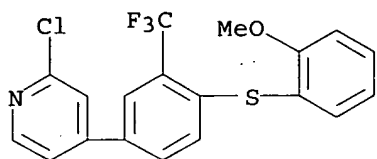
RN 388118-65-8 HCAPLUS

CN Pyridine, 4-[4-[[2-methoxyphenyl]thio]-3-(trifluoromethyl)phenyl]-,

1-oxide (9CI) (CA INDEX NAME)



RN 388118-66-9 HCAPLUS

CN Pyridine, 2-chloro-4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-
(9CI) (CA INDEX NAME)REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1019618 HCAPLUS

DOCUMENT NUMBER: 142:69141

TITLE: Methods of identifying non-specific inhibitors of
biomolecules

INVENTOR(S): Shoichet, Brian K.; McGovern, Susan L.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004234942	A1	20041125	US 2002-171814	20020614
PRIORITY APPLN. INFO.: US 2001-298527P			P	20010615

AB The invention provides methods of identifying compds. that non-specifically inhibit biol. reactions. The invention further includes kits that facilitate this identification. In addition, compilations of compds. for use in high throughput drug screening that have been evaluated by the disclosed methodol. are also part of the d invention. The invention provides methods for identifying a false pos. in a screening assay by measuring the activity of at least one biol. activity in the presence and absence of a small mol. compound capable of inhibiting aggregate formation, e.g., digitonin.

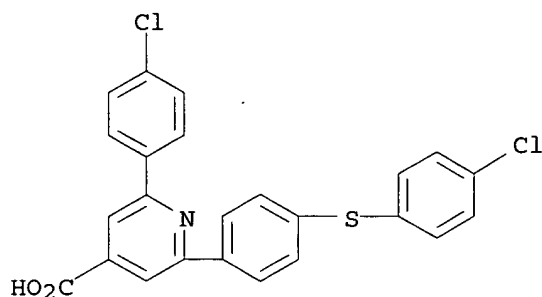
IT 813420-78-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(methods of identifying non-specific inhibitors of biomols.)

RN 813420-78-9 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-(4-chlorophenyl)-6-[4-[(4-chlorophenyl)thio]phenyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:121178 HCAPLUS

DOCUMENT NUMBER: 140:299089

TITLE: Structure of an Allosteric Inhibitor of LFA-1 Bound to the I-Domain Studied by Crystallography, NMR, and Calorimetry

AUTHOR(S): Crump, Matthew P.; Ceska, Thomas A.; Spyrapoulos, Leo; Henry, Alistair; Archibald, Sarah C.; Alexander, Rikki; Taylor, Richard J.; Findlow, Stuart C.; O'Connell, James; Robinson, Martyn K.; Shock, Anthony

CORPORATE SOURCE: School of Biological Sciences, University of Southampton, Southampton, SO16 7PX, UK

SOURCE: Biochemistry (2004), 43(9), 2394-2404

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

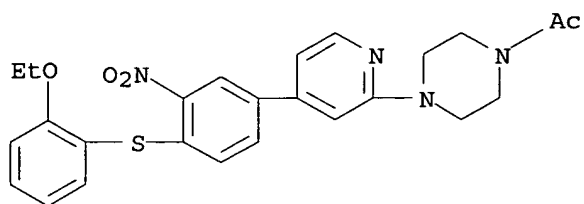
LANGUAGE: English

AB LFA-1 (lymphocyte function-associated antigen-1) plays a role in intercellular adhesion and lymphocyte trafficking and activation and is an attractive anti-inflammatory drug target. The α -subunit of LFA-1, in common with several other integrins, has an N-terminally inserted domain (I-domain) of .apprx.200 amino acids that plays a central role in regulating ligand binding to LFA-1. An addnl. region, termed the I-domain allosteric site (IDAS), has been identified exclusively within the LFA-1 I-domain and shown to regulate the function of this protein. The IDAS is occupied by small mol. LFA-1 inhibitors when cocrystd. or analyzed by ^{15}N - ^1H HSQC (heteronuclear single-quantum coherence) NMR titration expts. We report here a novel arylthio inhibitor that binds the I-domain with a K_d of 18.3 nM as determined by isothermal titration calorimetry (ITC). This value is

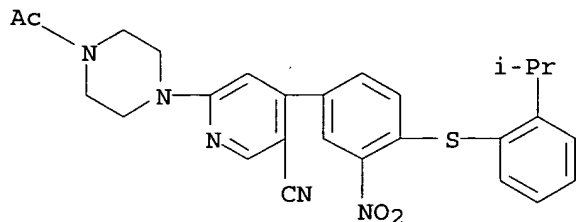
in close agreement with the IC_{50} (10.9 nM) derived from a biochem. competition assay (DELFA) that measures the level of inhibition of binding of whole LFA-1 to its ligand, ICAM-1. Having established the strong affinity of the arylthio inhibitor for the isolated I-domain, we have used a range of techniques to further characterize the binding, including ITC, NMR, and X-ray crystallog. We have first developed an effective ITC binding assay for use with low-solubility inhibitors that avoids the need for ELISA-based assays. In addition, we utilized a fast NMR-based assay for the generation of I-domain-inhibitor models. This is based around the collection of HCCH-TOCSY spectra of LFA-1 in the bound form and the identification of a subset of side chain Me groups that give chemical

shift changes upon binding of LFA-1 inhibitors. This subset was used in two-dimensional ^{13}C - ^{15}N and ^{15}N -filtered and -edited two-dimensional NMR expts. to identify a minimal set of intraligand and ligand-protein NOEs, resp. (nuclear Overhauser enhancements). Models from the NMR data were assessed by comparison to an X-ray crystallog. structure of the complex, confirming that the method correctly predicted the essential features of the bound ligand.

IT 677009-29-9D, complexes with LFA-1 677009-30-2D,
complexes with LFA-1
RL: PRP (Properties)
(crystallog., NMR, and calorimetry address interaction of allosteric inhibitors with I-domain of human LFA-1)
RN 677009-29-9 HCAPLUS
CN Piperazine, 1-acetyl-4-[4-[4-[(2-ethoxyphenyl)thio]-3-nitrophenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 677009-30-2 HCAPLUS
CN Piperazine, 1-acetyl-4-[5-cyano-4-[4-[[2-(1-methylethyl)phenyl]thio]-3-nitrophenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



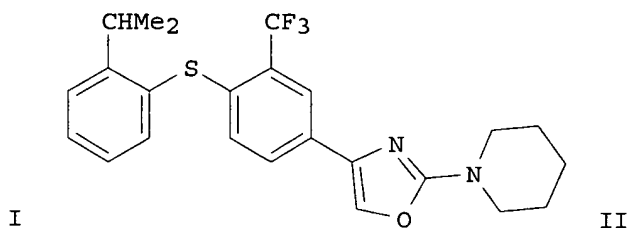
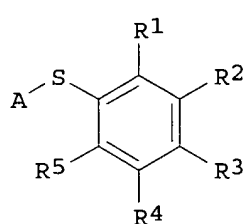
own work

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:717059 HCAPLUS
DOCUMENT NUMBER: 137:247710
TITLE: Preparation of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting anti-inflammatory and immune-suppressive agents
INVENTOR(S): Wang, Gary T.; Wang, Sheldon; Gentles, Robert
PATENT ASSIGNEE(S): Icos Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 44 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002132807	A1	20020919	US 2001-888840	20010625
US 6787542	B2	20040907		
US 2005014746	A1	20050120	US 2004-773332	20040209
PRIORITY APPLN. INFO.:			US 2000-214983P	P 20000629
			US 2001-888840	A3 20010625

OTHER SOURCE(S): MARPAT 137:247710
GI



AB The title compds. [I; R1-R5 = H, halo, alkyl, etc. (with proviso that at least one of R1 or R3 = (un)substituted pyridyl, pyrimidyl, oxazolyl, etc.); A = (un)substituted aryl, heterocyclyl] were prepared for treating inflammatory and immune diseases, such as arthritis, asthma, reperfusion injury, inflammatory bowel disease etc. The products I had IC₅₀ <20 μM for inhibition of ICAM-1 binding to LFA-1. 2-Me₂CHC₆H₄SH was etherified with 4,3-F(F3C)C₆H₃COMe, followed by bromination, and reaction with 1-carbamoylpiperidine to give the sulfide II.

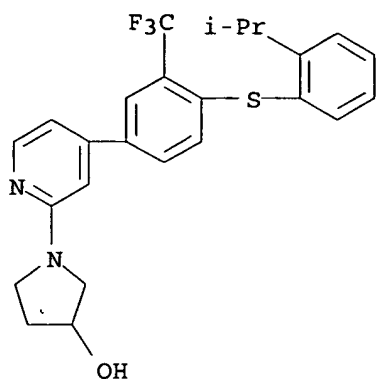
IT 388117-88-2P 388117-89-3P 388117-90-6P
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 388118-39-6P 388118-40-9P 388118-41-0P
 388118-42-1P 388118-43-2P 388118-44-3P
 388118-45-4P 388118-46-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

RN 388117-88-2 HCAPLUS

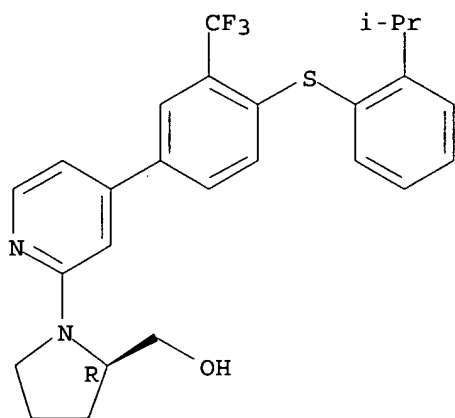
CN 3-Pyrrolidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-89-3 HCAPLUS

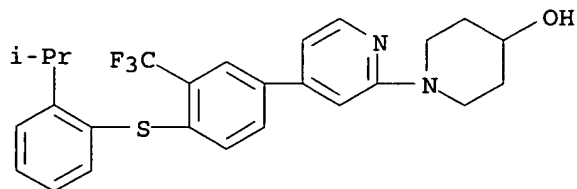
CN 2-Pyrrolidinemethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



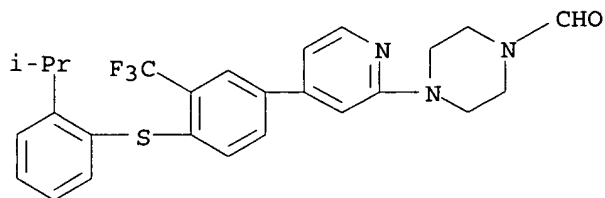
RN 388117-90-6 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-91-7 HCAPLUS

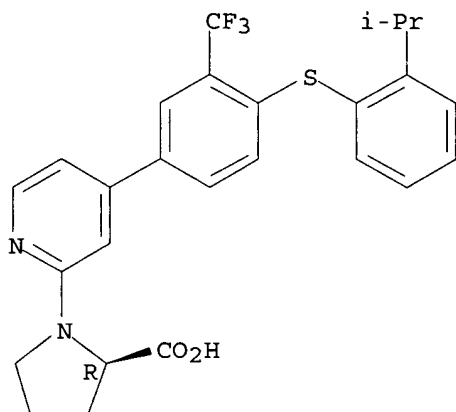
CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-92-8 HCAPLUS

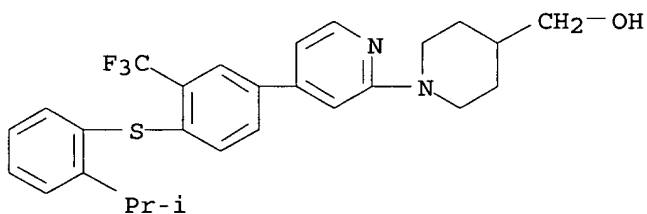
CN D-Proline, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388117-93-9 HCAPLUS

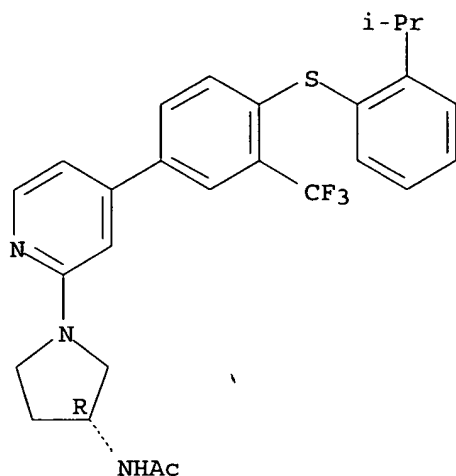
CN 4-Piperidinemethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-94-0 HCAPLUS

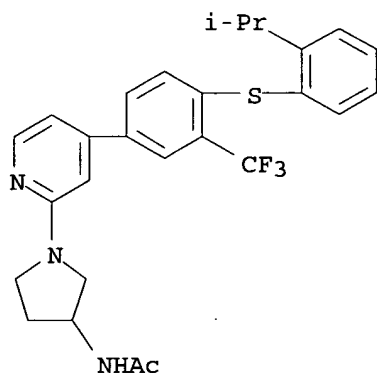
CN Acetamide, N-[(3R)-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



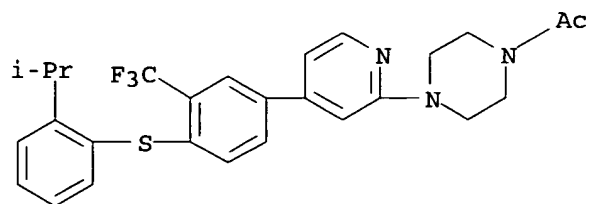
RN 388117-95-1 HCAPLUS

CN Acetamide, N-[1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



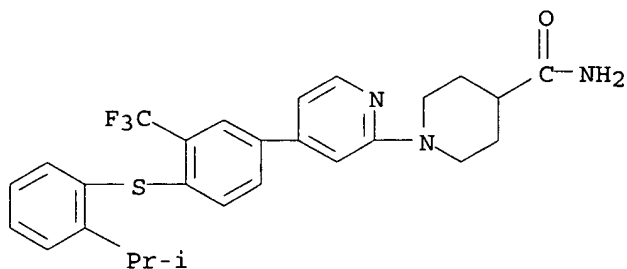
RN 388117-96-2 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



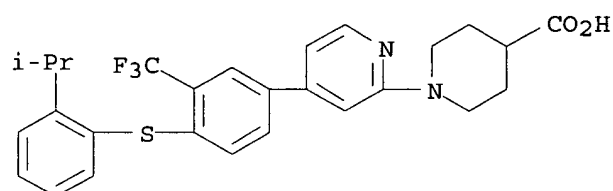
RN 388117-97-3 HCAPLUS

CN 4-Piperidinecarboxamide, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



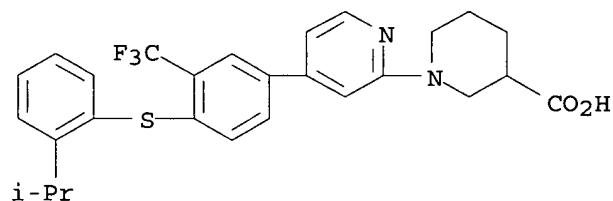
RN 388117-98-4 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



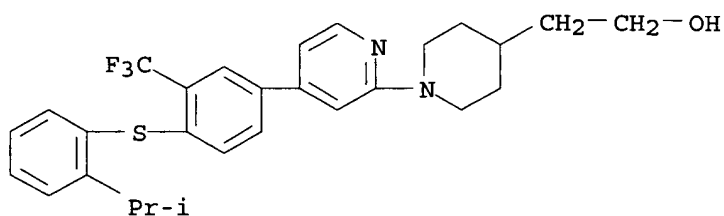
RN 388117-99-5 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-00-1 HCAPLUS

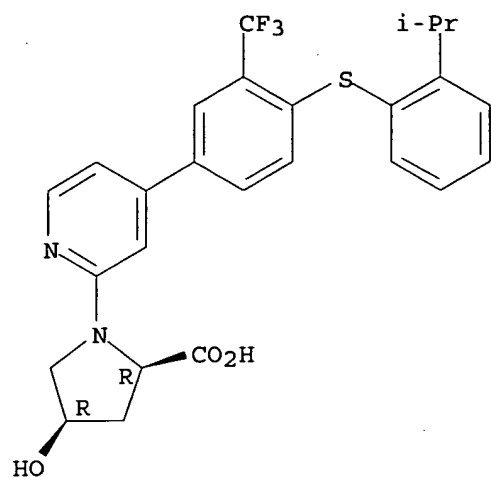
CN 4-Piperidineethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-01-2 HCAPLUS

CN D-Proline, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

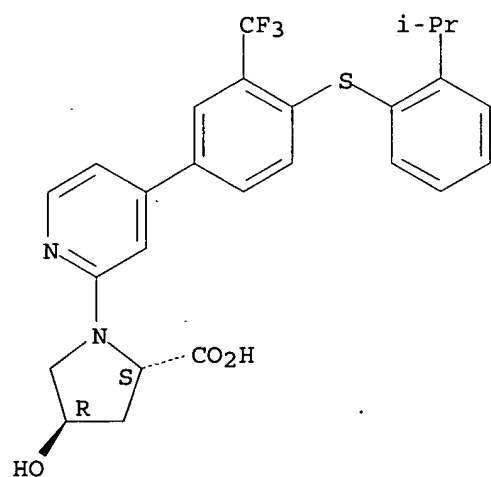
Absolute stereochemistry.



RN 388118-02-3 HCAPLUS

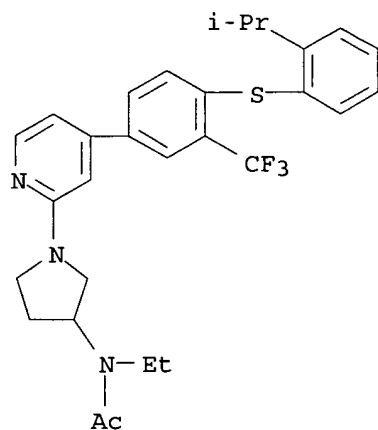
CN L-Proline, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



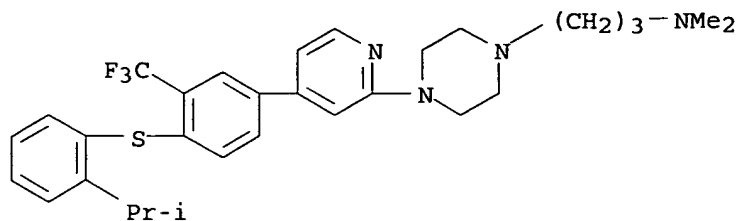
RN 388118-03-4 HCAPLUS

CN Acetamide, N-ethyl-N-[1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



3-Piperidinecarboxylic acid, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R,4S)-rel- (9CI) (CA INDEX NAME)

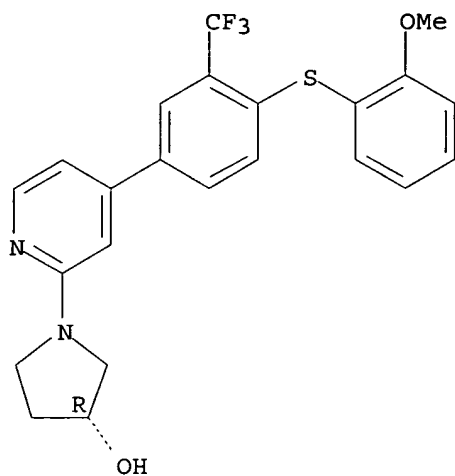
CN 1-Piperazinepropanamine, N,N-dimethyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI)
(CA INDEX NAME)



RN 388118-06-7 HCAPLUS

CN 3-Pyrrolidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

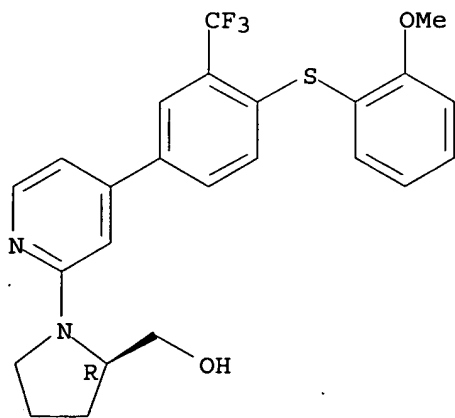
Absolute stereochemistry.



RN 388118-07-8 HCAPLUS

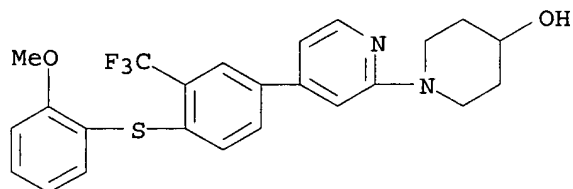
CN 2-Pyrrolidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



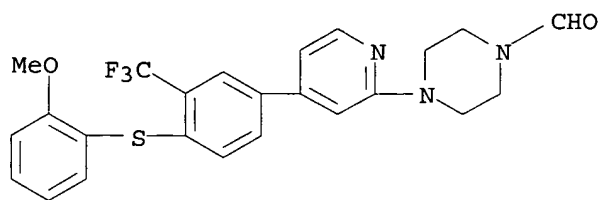
RN 388118-08-9 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-09-0 HCAPLUS

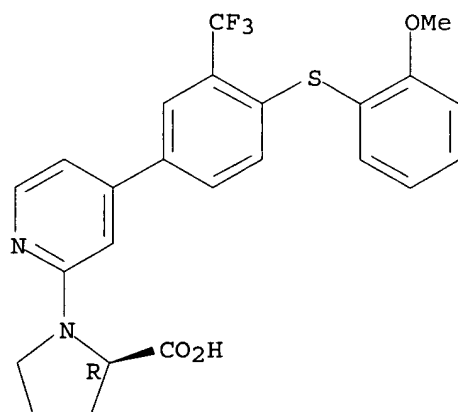
CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-10-3 HCAPLUS

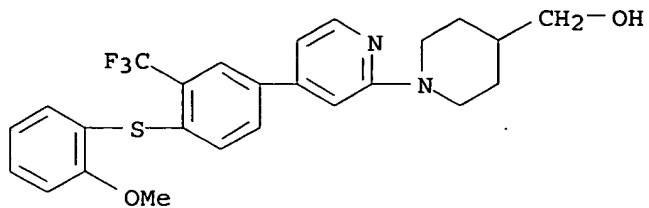
CN D-Proline, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-11-4 HCAPLUS

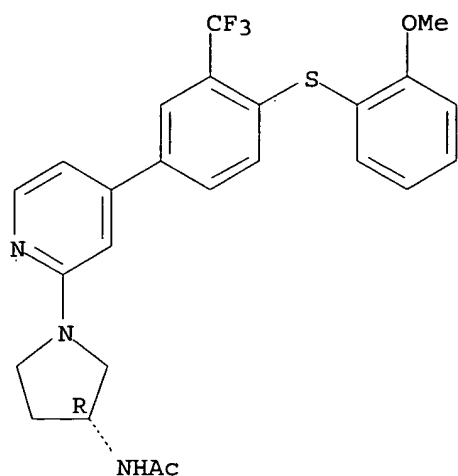
CN 4-Piperidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-12-5 HCAPLUS

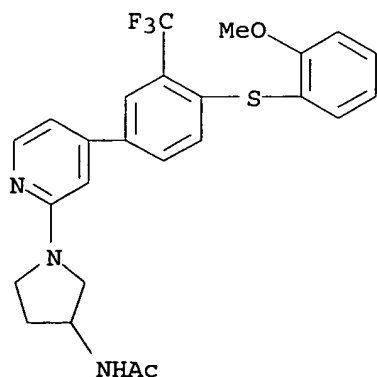
CN Acetamide, N-[(3R)-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



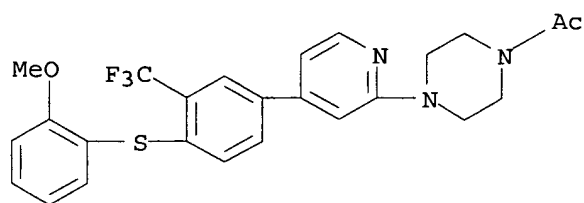
RN 388118-13-6 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



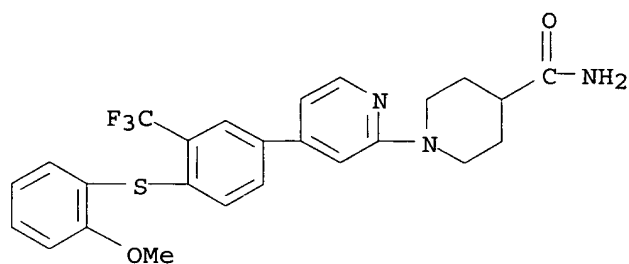
RN 388118-14-7 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



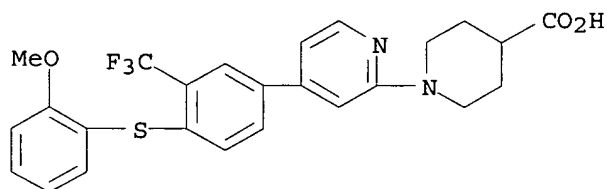
RN 388118-15-8 HCAPLUS

CN 4-Piperidinecarboxamide, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



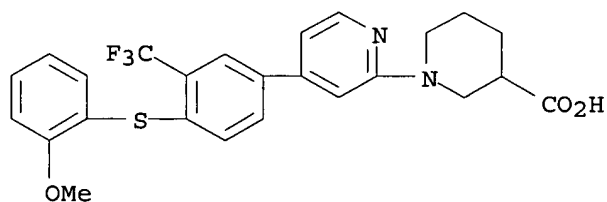
RN 388118-16-9 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



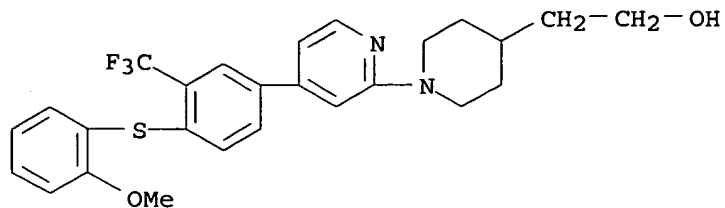
RN 388118-17-0 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-18-1 HCAPLUS

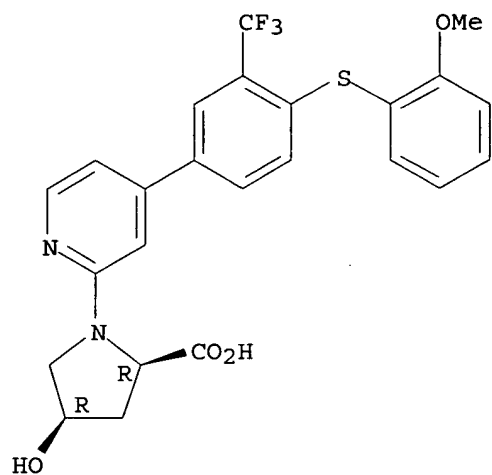
CN 4-Piperidineethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-19-2 HCAPLUS

CN D-Proline, 4-hydroxy-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

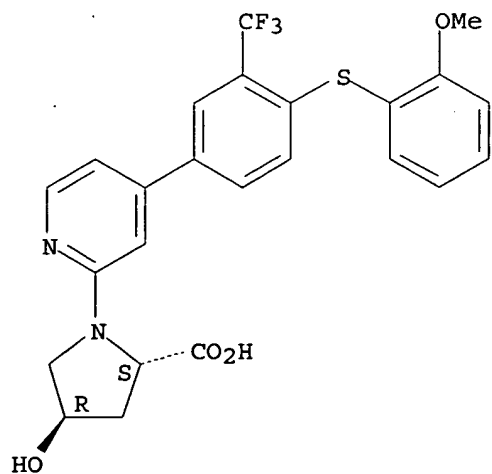
Absolute stereochemistry.



RN 388118-20-5 HCAPLUS

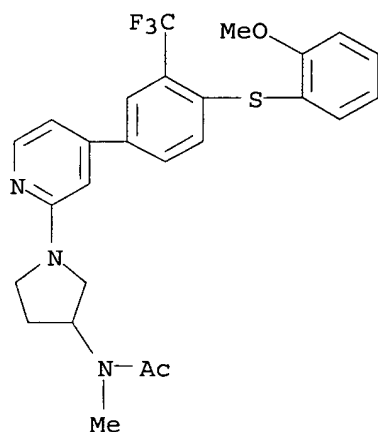
CN L-Proline, 4-hydroxy-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



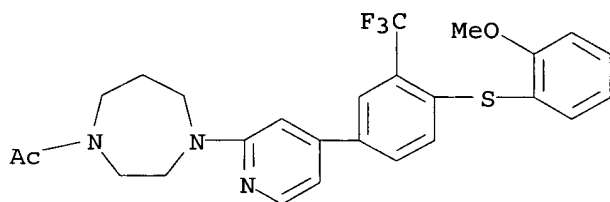
RN 388118-21-6 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)



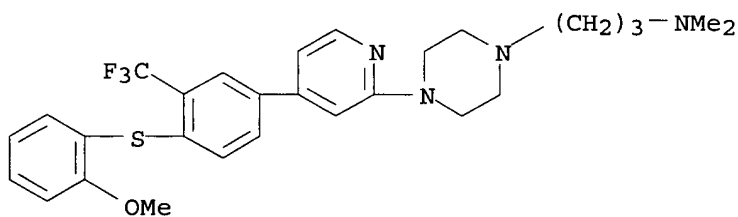
RN 388118-22-7 HCAPLUS

CN 1H-1,4-Diazepine, 1-acetylhexahydro-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



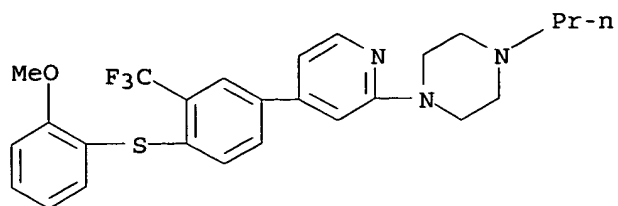
RN 388118-23-8 HCAPLUS

CN 1-Piperazinepropanamine, 4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



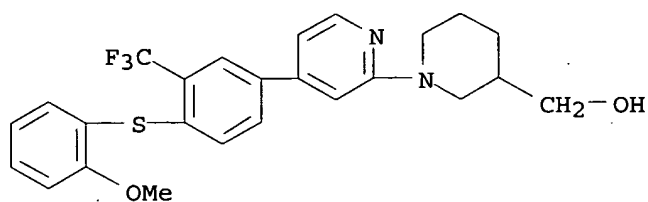
RN 388118-24-9 HCAPLUS

CN Piperazine, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)



RN 388118-25-0 HCAPLUS

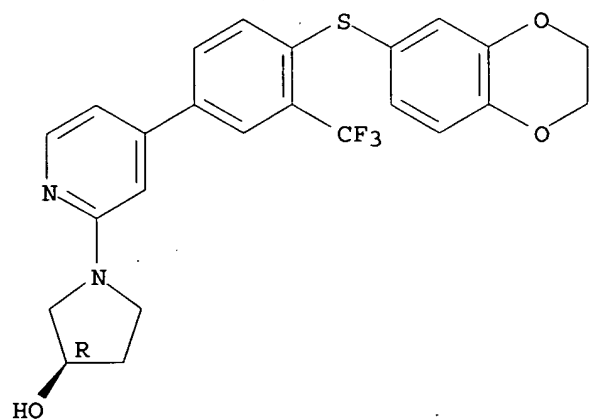
CN 3-Piperidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-26-1 HCAPLUS

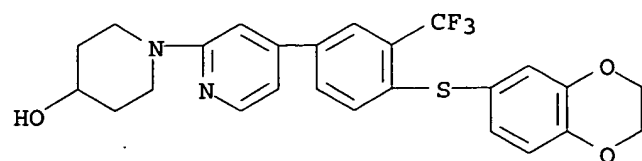
CN 3-Pyrrolidinol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-27-2 HCAPLUS

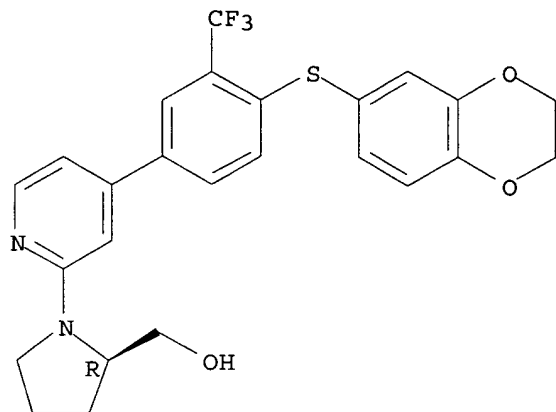
CN 4-Piperidinol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-28-3 HCAPLUS

CN 2-Pyrrolidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

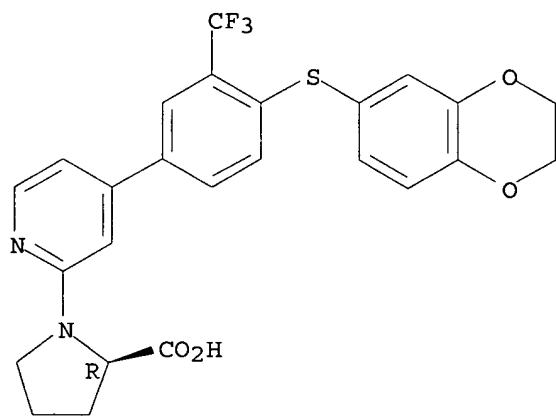
Absolute stereochemistry.



RN 388118-29-4 HCAPLUS

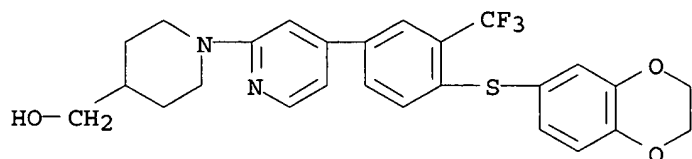
CN D-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-30-7 HCAPLUS

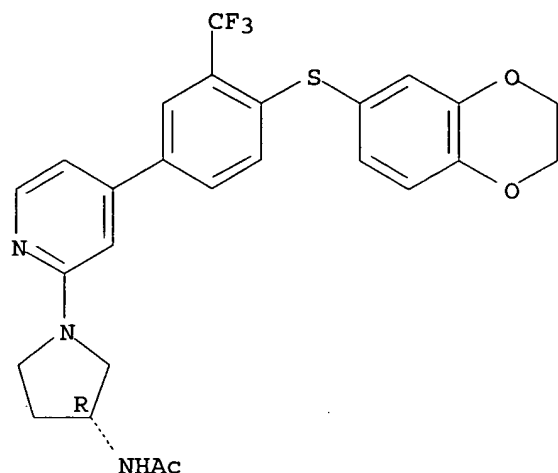
CN 4-Piperidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-31-8 HCAPLUS

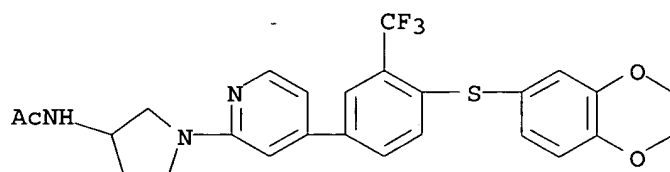
CN Acetamide, N-[(3R)-1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



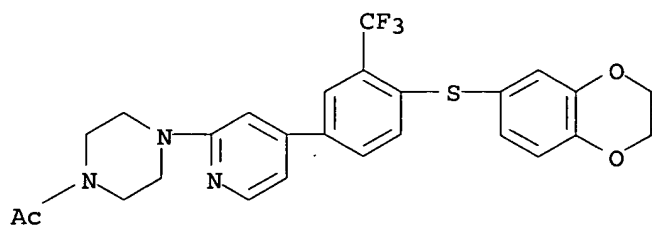
RN 388118-32-9 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



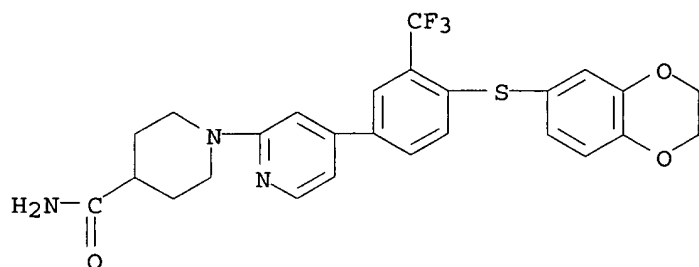
RN 388118-33-0 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

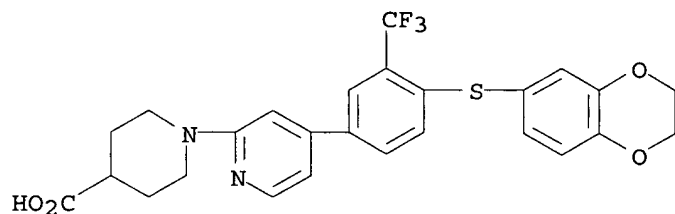


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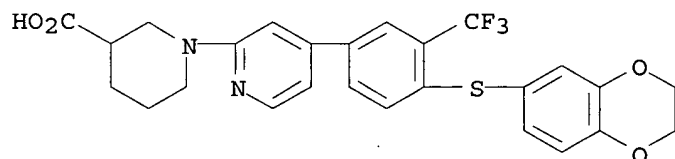
CN 4-Piperidinecarboxamide, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



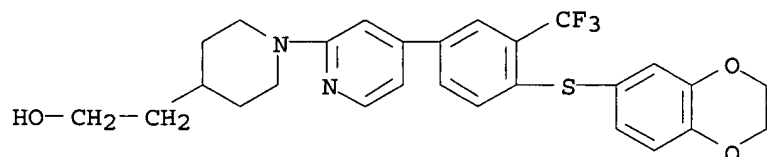
RN 388118-35-2 HCAPLUS
CN 4-Piperidinecarboxylic acid, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-36-3 HCAPLUS
CN 3-Piperidinecarboxylic acid, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

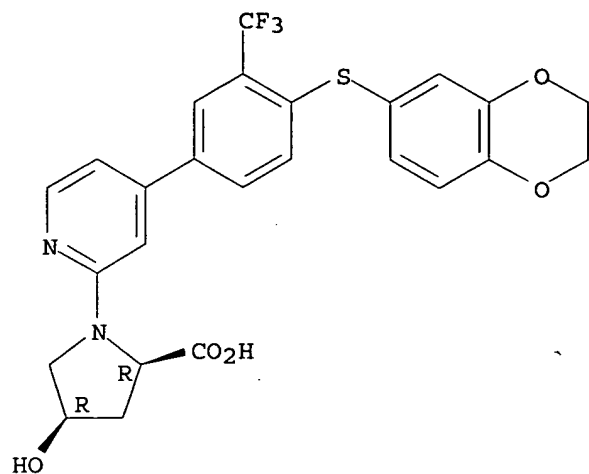


RN 388118-37-4 HCAPLUS
CN 4-Piperidineethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-38-5 HCAPLUS
CN D-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

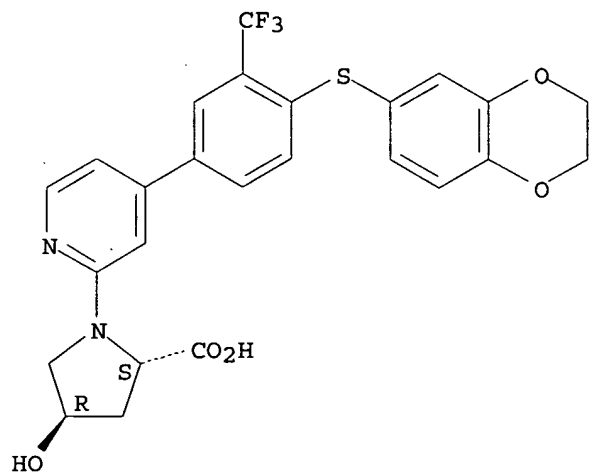
Absolute stereochemistry.



RN 388118-39-6 HCAPLUS

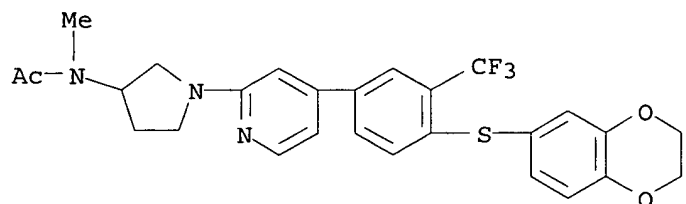
CN L-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

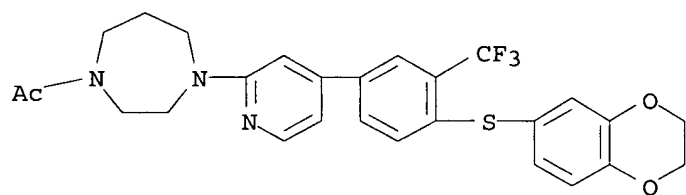


RN 388118-40-9 HCAPLUS

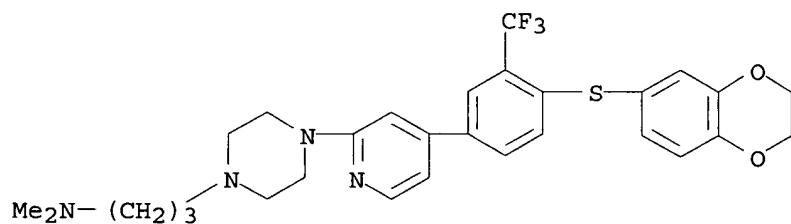
CN Acetamide, N-[1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)



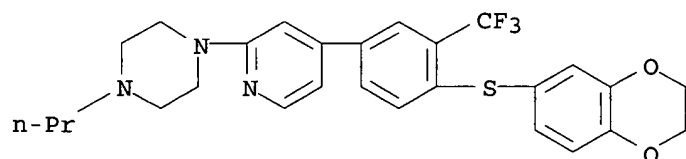
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 CN 1H-1,4-Diazepine, 1-acetyl-4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]hexahydro- (9CI) (CA INDEX NAME)



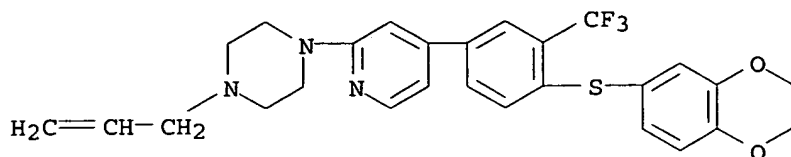
RN 388118-42-1 HCAPLUS
 CN 1-Piperazinepropanamine, 4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 388118-43-2 HCAPLUS
 CN Piperazine, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)

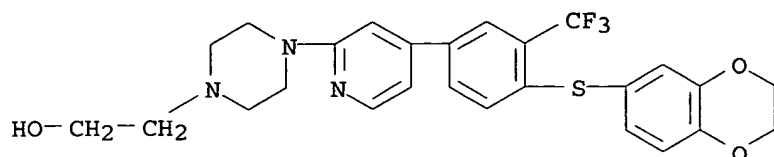


RN 388118-44-3 HCAPLUS
 CN Piperazine, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-(2-propenyl)- (9CI) (CA INDEX NAME)



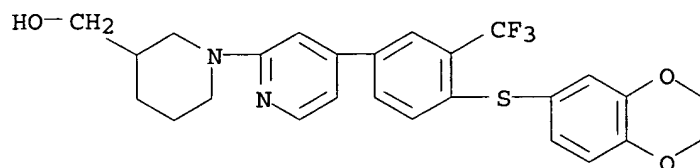
RN 388118-45-4 HCAPLUS

CN 1-Piperazineethanol, 4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-46-5 HCAPLUS

CN 3-Piperidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

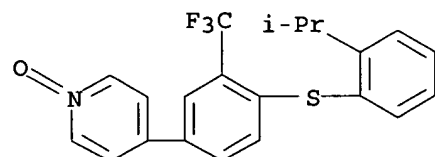
IT 388118-61-4P 388118-62-5P 388118-65-8P
388118-66-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

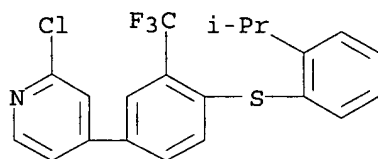
RN 388118-61-4 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)

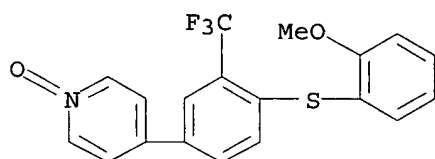


RN 388118-62-5 HCAPLUS

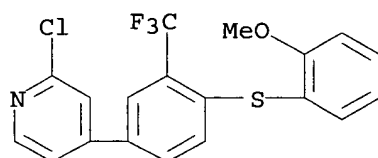
CN Pyridine, 2-chloro-4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 388118-65-8 HCAPLUS

CN Pyridine, 4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-,
1-oxide (9CI) (CA INDEX NAME)

RN 388118-66-9 HCAPLUS

CN Pyridine, 2-chloro-4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-
(9CI) (CA INDEX NAME)REFERENCE COUNT: 111 THERE ARE 111 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:293978 HCAPLUS

DOCUMENT NUMBER: 136:337341

TITLE: Materials and methods to modulate ligand
binding/enzymic activity of α/β proteins
containing an allosteric regulatory site

INVENTOR(S): Stauton, Donald E.

PATENT ASSIGNEE(S): Icos Corporation, USA

SOURCE: PCT Int. Appl., 163 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031511	A2	20020418	WO 2001-US32047	20011012
WO 2002031511	A3	20030313		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2425581 AA 20020418 CA 2001-2425581 20011012
 AU 2002013196 A5 20020422 AU 2002-13196 20011012
 US 2003088061 A1 20030508 US 2001-976935 20011012
 EP 1325341 A2 20030709 EP 2001-981560 20011012

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004511496 T2 20040415 JP 2002-534845 20011012

PRIORITY APPLN. INFO.: US 2000-239750P P 20001012
 WO 2001-US32047 W 20011012

AB Methods of modulating binding between an α/β protein and a binding partner are provided, along with methods of identifying modulators and their use. The methods comprise contacting the α/β protein with an allosteric effector mol. which binds to an allosteric site of the α/β protein and alters the conformation of the α/β protein such that the binding of the α/β protein to a binding partner is modulated. Thus, a primary screen for inhibitors of the classical pathway complement protein C2 and alternative pathway complement protein factor B involving modifications of standard hemolytic CH50 and AH50 assays in a microtiter plate format was carried out. Lead compds. identified in this screen were submitted to a second screening using purified complement proteins to determine which stage of complement activation the compds. inhibited. Five diaryl sulfides were identified. Numerous other assays, e.g., to identify inhibitors of integrin $\alpha E\beta y$ interaction with E cadherin, inhibitors of Rac1 GDP-GTP exchange, or antagonists of E. coli 6-hydroxymethyl-7,8-dihydropterin pyrophosphokinase, were conducted as well.

IT 415718-13-7

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (materials and methods to modulate ligand binding/enzymic activity of α/β proteins containing allosteric regulatory site)

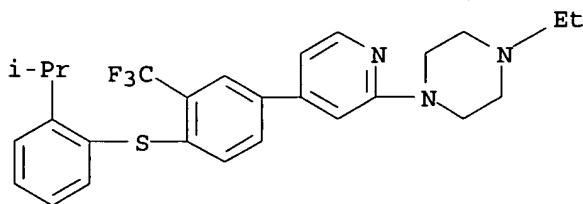
RN 415718-13-7 HCAPLUS

CN Piperazine, 1-ethyl-4-[4-[4-[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

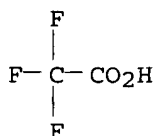
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CMF C27 H30 F3 N3 S



CM 2

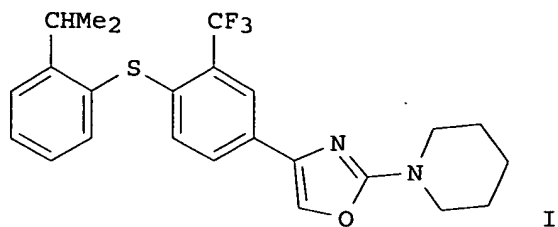
CRN 76-05-1
CMF C2 H F3 O2



L12 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:31429 HCAPLUS
DOCUMENT NUMBER: 136:102394
TITLE: Aryl phenylheterocyclyl sulfide derivatives and their use as cell adhesion-inhibiting anti-inflammatory and immune-suppressive agents
INVENTOR(S): Wang, Gary T.; Wang, Sheldon; Gentles, Robert
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

Same family

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002539	A1	20020110	WO 2001-US20128	20010622
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2414461	AA	20020110	CA 2001-2414461	20010622
AU 2001068718	A5	20020114	AU 2001-68718	20010622
EP 1294704	A1	20030326	EP 2001-946705	20010622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004502681	T2	20040129	JP 2002-507794	20010622
NZ 523445	A	20041029	NZ 2001-523445	20010622
PRIORITY APPLN. INFO.:			US 2000-606717	A 20000629
			US 2000-214983P	P 20000629
			WO 2001-US20128	W 20010622
OTHER SOURCE(S):			MARPAT 136:102394	
GI				



AB Title compds. were prepared for treating inflammatory and immune diseases, such as arthritis, asthma, reperfusion injury, inflammatory bowel disease etc. The products had IC50 <20 mM for inhibition of ICAM-1 binding to LFA-1. 2-Me2CHC6H4SH was etherified with 4,3-F(F3C)C6H3COMe, followed by bromination, and reaction with 1-carbamoylpiperidine to give the sulfide I.

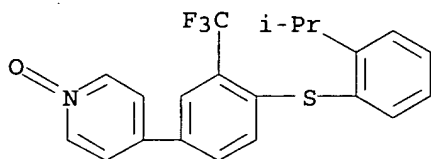
IT 388118-61-4P 388118-62-5P 388118-65-8P
388118-66-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

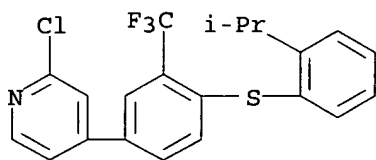
RN 388118-61-4 HCAPLUS

CN Pyridine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



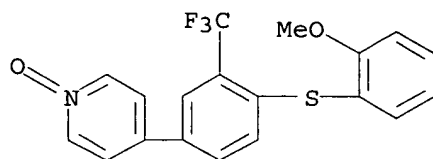
RN 388118-62-5 HCAPLUS

CN Pyridine, 2-chloro-4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



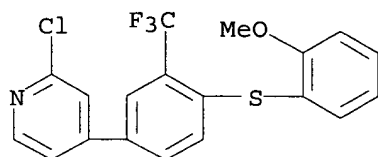
RN 388118-65-8 HCAPLUS

CN Pyridine, 4-[4-[[2-methoxyphenyl]thio]-3-(trifluoromethyl)phenyl]-, 1-oxide (9CI) (CA INDEX NAME)



RN 388118-66-9 HCAPLUS

CN Pyridine, 2-chloro-4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)



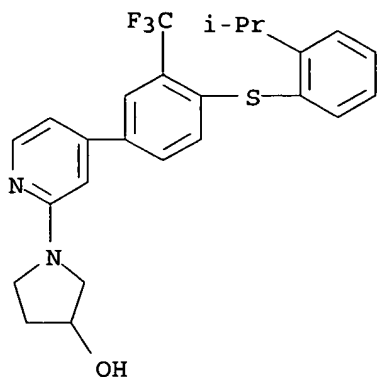
IT 388117-88-2P 388117-89-3P 388117-90-6P
 388117-91-7P 388117-92-8P 388117-93-9P
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 388118-00-1P 388118-01-2P 388118-02-3P
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 388118-45-4P 388118-46-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

RN 388117-88-2 HCAPLUS

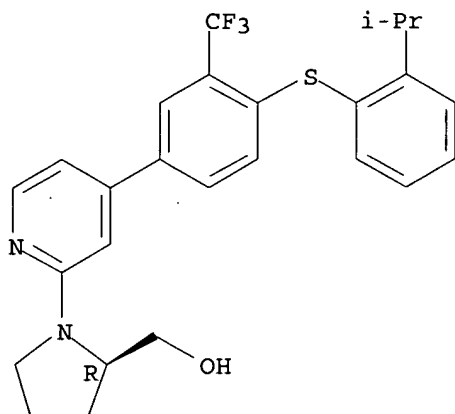
CN 3-Pyrrolidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-(9CI) (CA INDEX NAME)



RN 388117-89-3 HCAPLUS

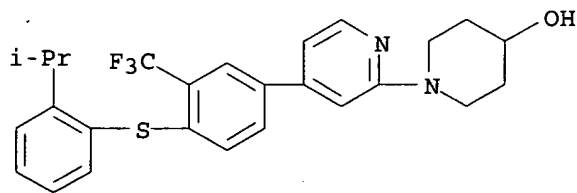
CN 2-Pyrrolidinemethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



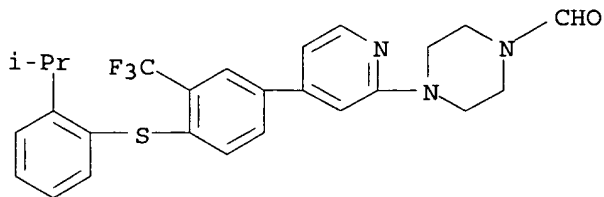
RN 388117-90-6 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-91-7 HCAPLUS

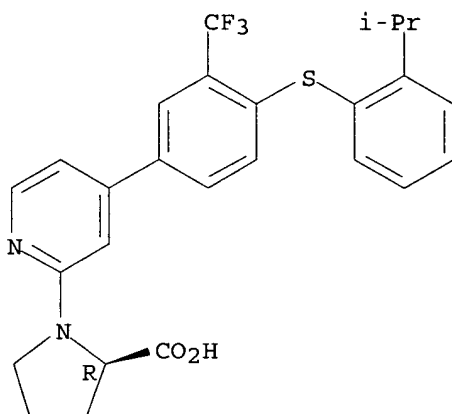
CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-92-8 HCAPLUS

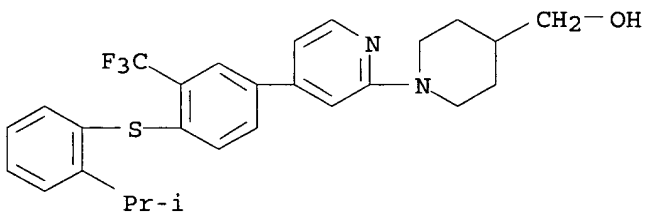
CN D-Proline, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388117-93-9 HCAPLUS

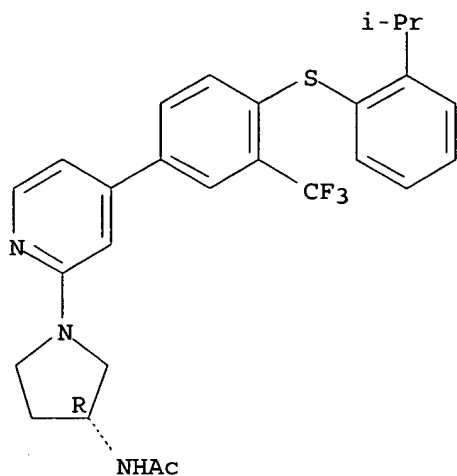
CN 4-Piperidinemethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388117-94-0 HCAPLUS

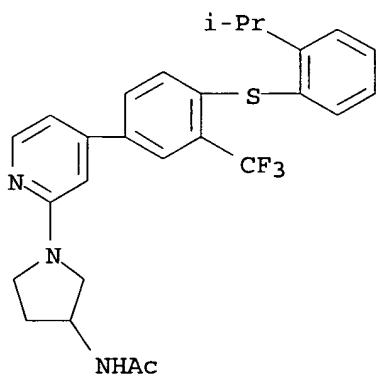
CN Acetamide, N-[(3R)-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



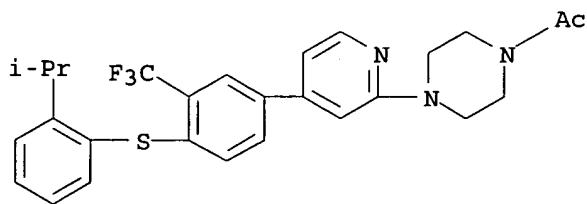
RN 388117-95-1 HCAPLUS

CN Acetamide, N-[1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



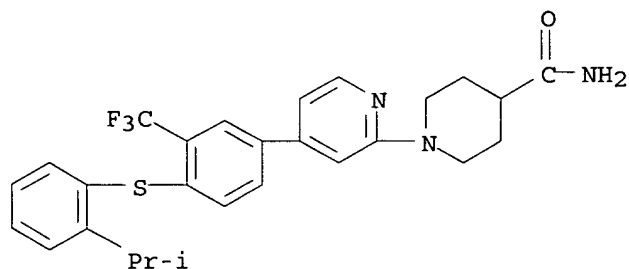
RN 388117-96-2 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



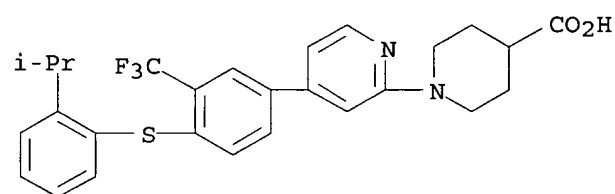
RN 388117-97-3 HCAPLUS

CN 4-Piperidinecarboxamide, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



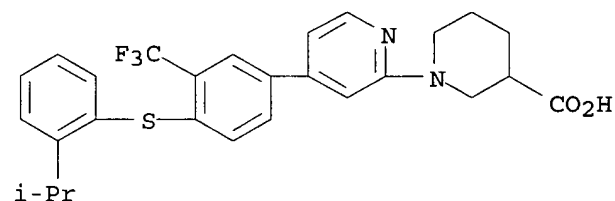
RN 388117-98-4 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



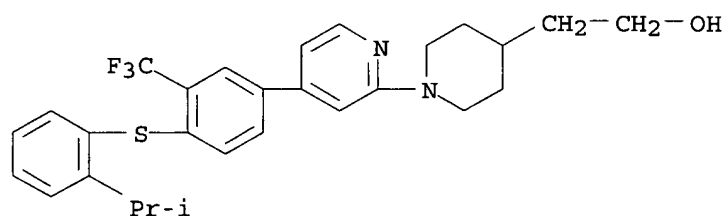
RN 388117-99-5 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-00-1 HCAPLUS

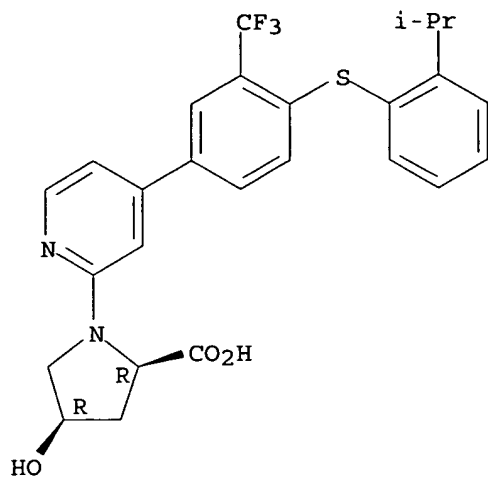
CN 4-Piperidineethanol, 1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-01-2 HCAPLUS

CN D-Proline, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

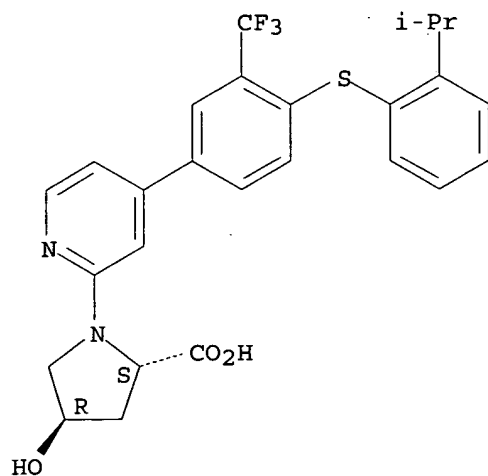
Absolute stereochemistry.



RN 388118-02-3 HCAPLUS

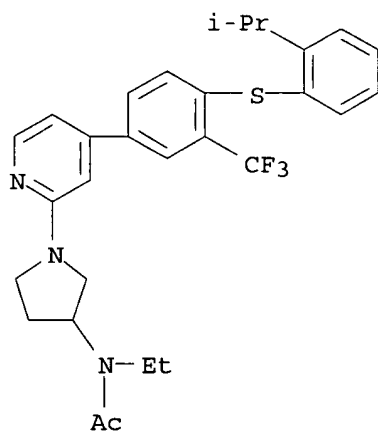
CN L-Proline, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-03-4 HCAPLUS

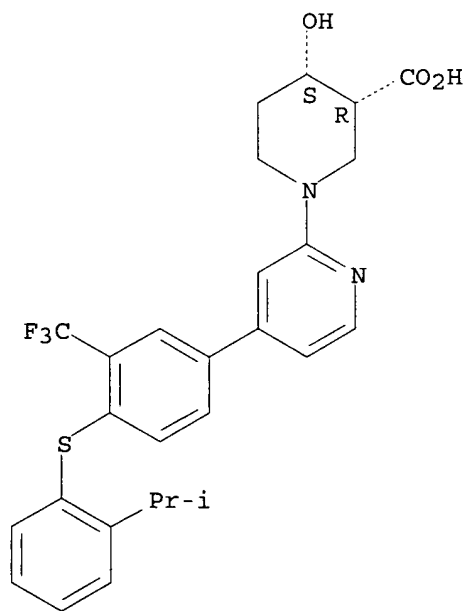
CN Acetamide, N-ethyl-N-[1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 388118-04-5 HCAPLUS

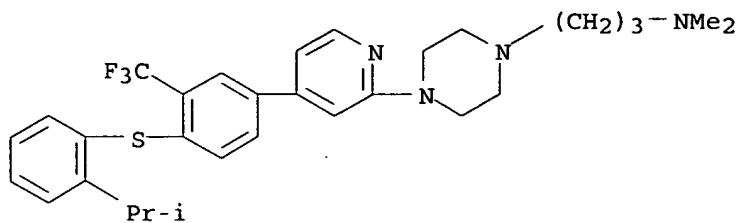
CN 3-Piperidinecarboxylic acid, 4-hydroxy-1-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 388118-05-6 HCAPLUS

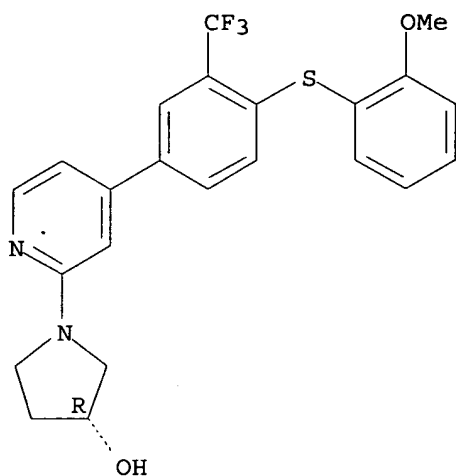
CN 1-Piperazinepropanamine, N,N-dimethyl-4-[4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-06-7 HCAPLUS

CN 3-Pyrrolidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

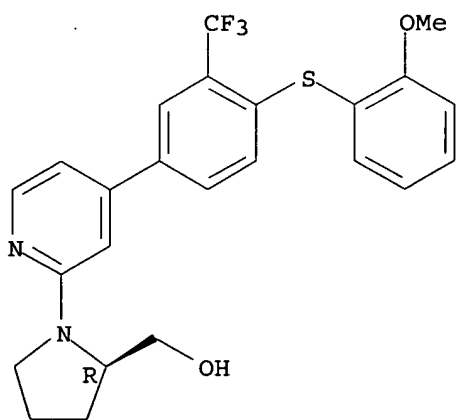
Absolute stereochemistry.



RN 388118-07-8 HCAPLUS

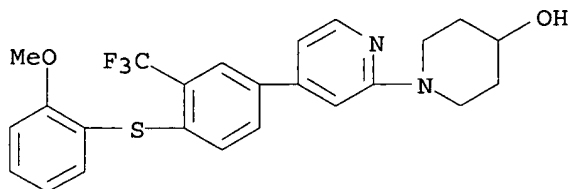
CN 2-Pyrrolidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



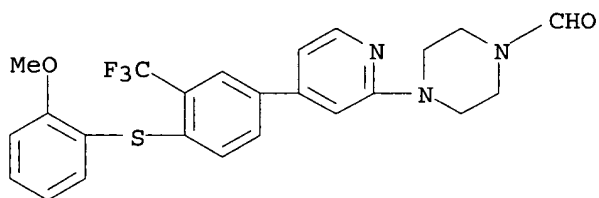
RN 388118-08-9 HCAPLUS

CN 4-Piperidinol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-09-0 HCAPLUS

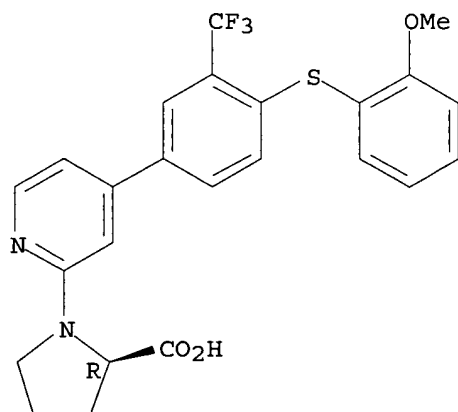
CN 1-Piperazinecarboxaldehyde, 4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-10-3 HCAPLUS

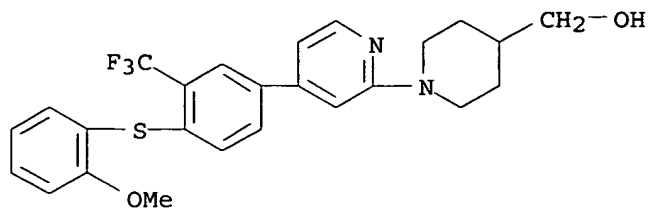
CN D-Proline, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-11-4 HCAPLUS

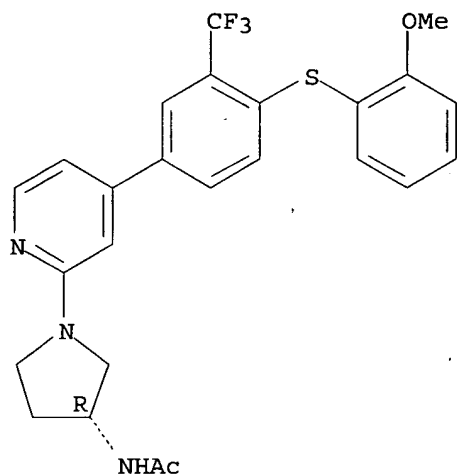
CN 4-Piperidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-12-5 HCAPLUS

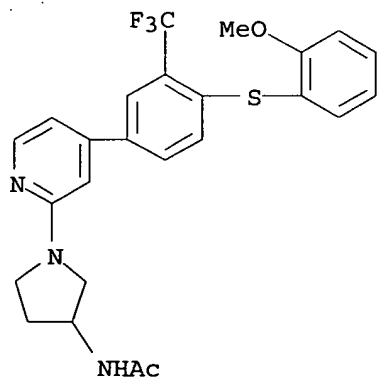
CN Acetamide, N-[(3R)-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



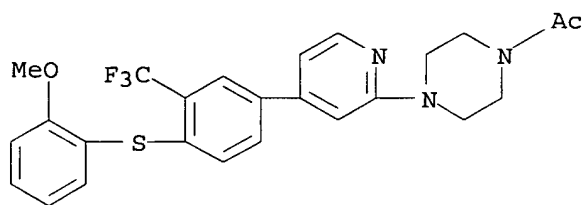
RN 388118-13-6 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



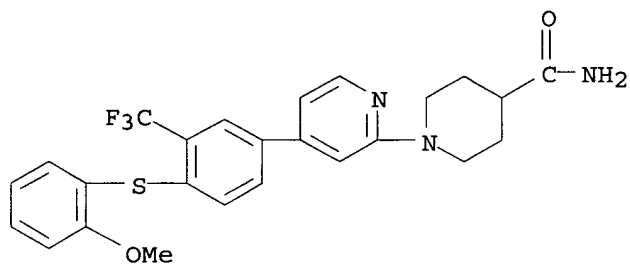
RN 388118-14-7 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



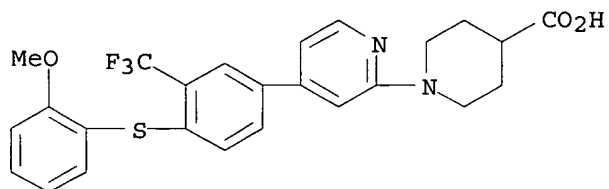
RN 388118-15-8 HCAPLUS

CN 4-Piperidinecarboxamide, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



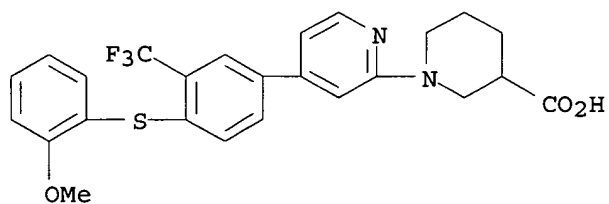
RN 388118-16-9 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



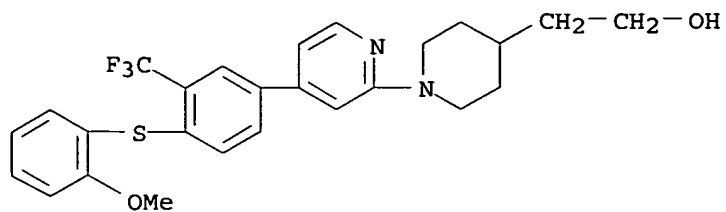
RN 388118-17-0 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-18-1 HCAPLUS

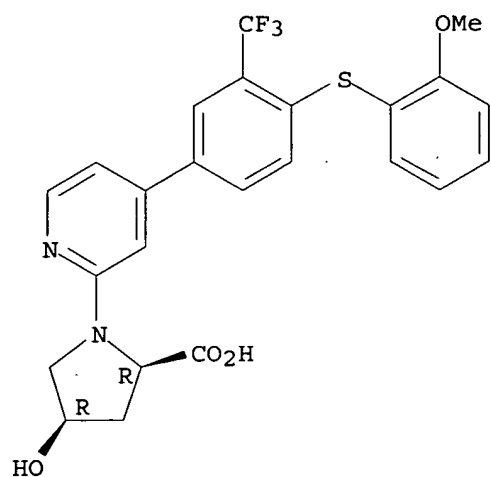
CN 4-Piperidineethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-19-2 HCAPLUS

CN D-Proline, 4-hydroxy-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

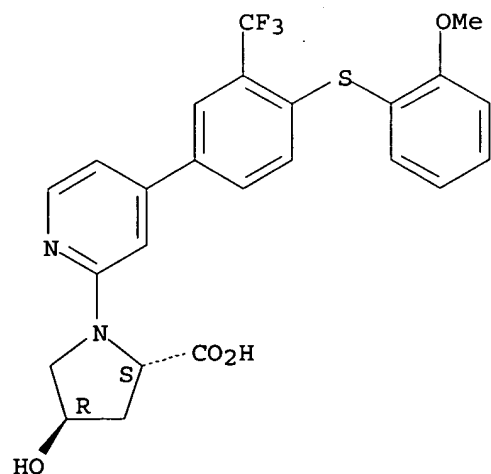
Absolute stereochemistry.



RN 388118-20-5 HCAPLUS

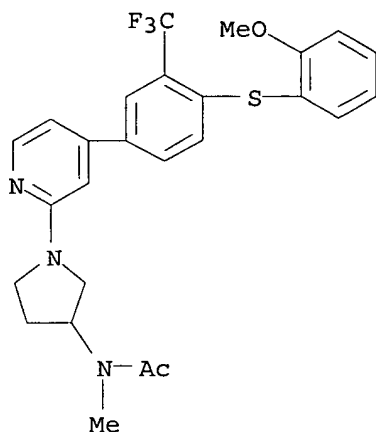
CN L-Proline, 4-hydroxy-1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



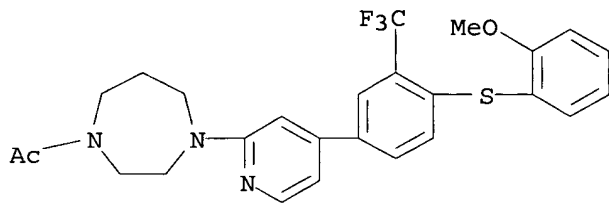
RN 388118-21-6 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)



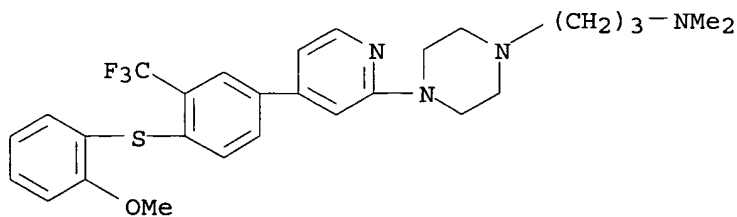
RN 388118-22-7 HCAPLUS

CN 1H-1,4-Diazepine, 1-acetylhexahydro-4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



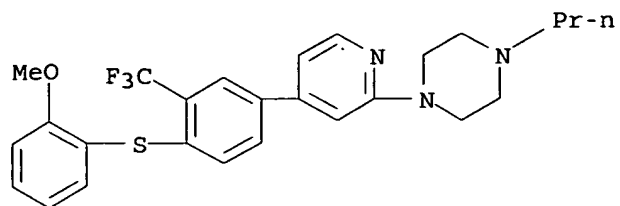
RN 388118-23-8 HCAPLUS

CN 1-Piperazinepropanamine, 4-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



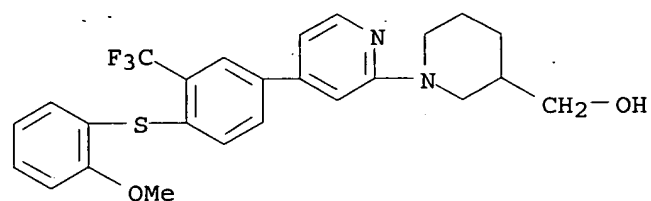
RN 388118-24-9 HCAPLUS

CN Piperazine, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)



RN 388118-25-0 HCAPLUS

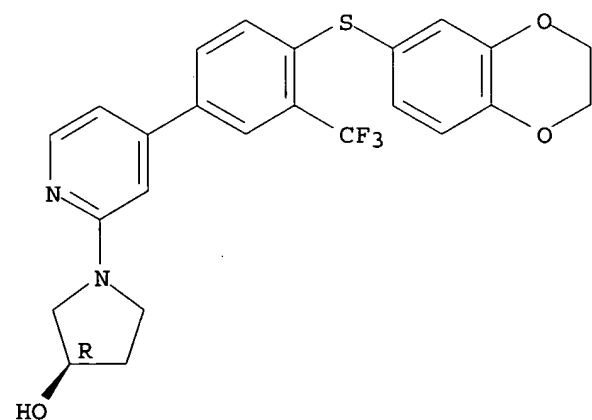
CN 3-Piperidinemethanol, 1-[4-[4-[(2-methoxyphenyl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-26-1 HCAPLUS

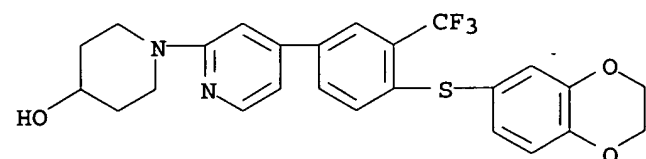
CN 3-Pyrrolidinol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-27-2 HCAPLUS

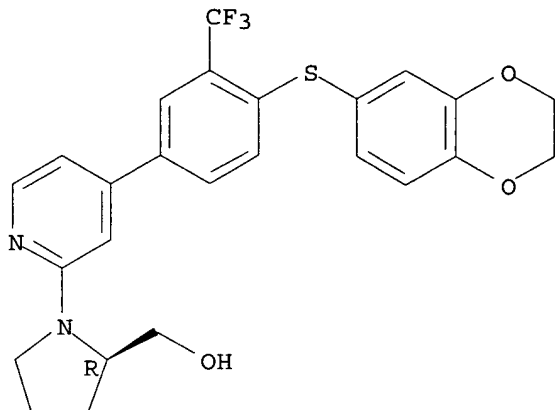
CN 4-Piperidinol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-28-3 HCAPLUS

CN 2-Pyrrolidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-, (2R)- (9CI) (CA INDEX NAME)

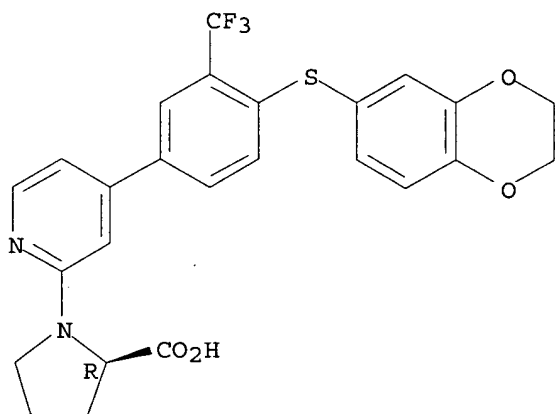
Absolute stereochemistry.



RN 388118-29-4 HCAPLUS

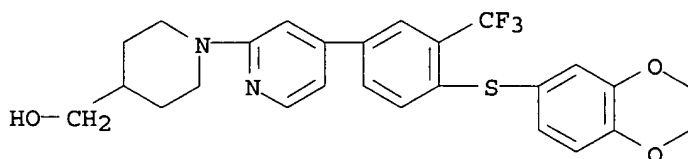
CN D-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 388118-30-7 HCAPLUS

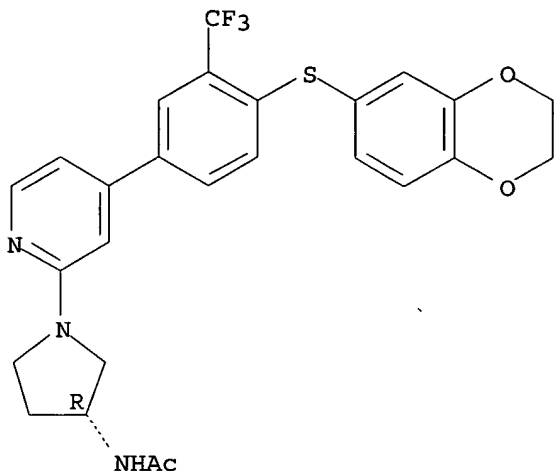
CN 4-Piperidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-31-8 HCAPLUS

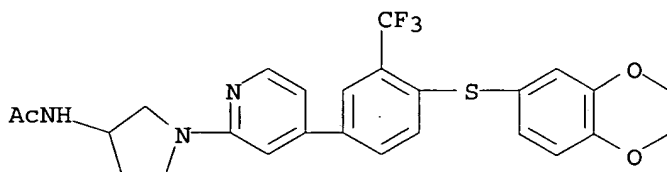
CN Acetamide, N-[(3R)-1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



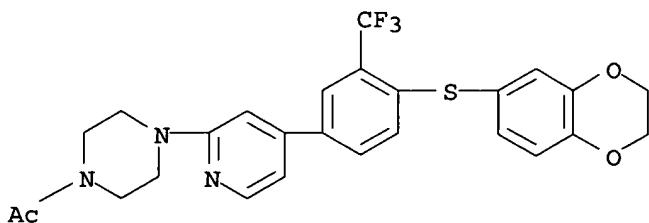
RN 388118-32-9 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



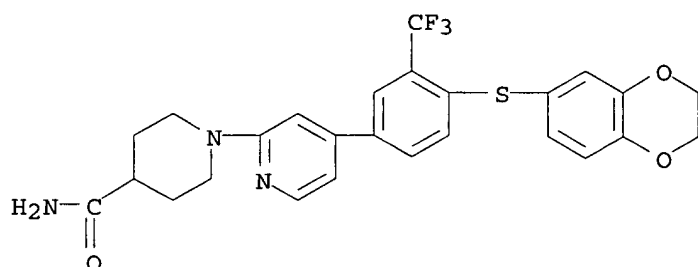
RN 388118-33-0 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



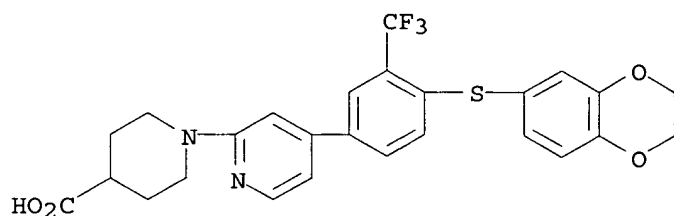
RN 388118-34-1 HCAPLUS

CN 4-Piperidinecarboxamide, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



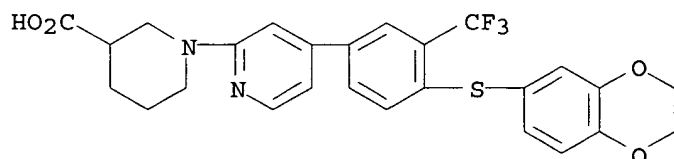
RN 388118-35-2 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



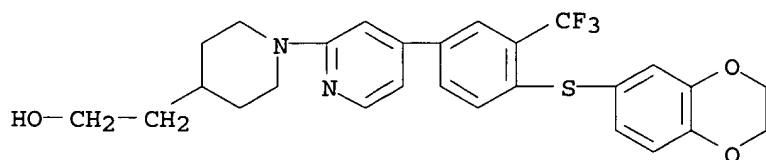
RN 388118-36-3 HCAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-37-4 HCAPLUS

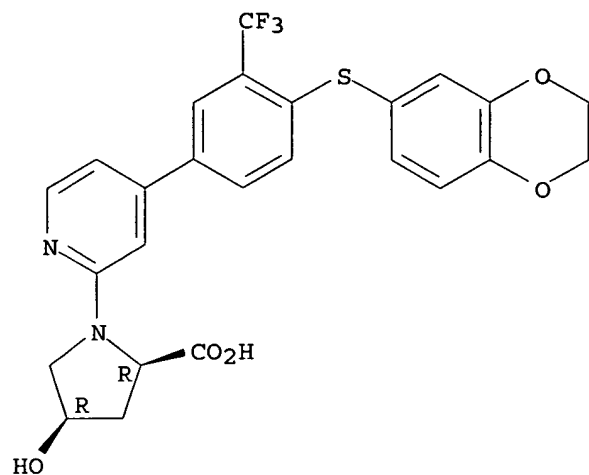
CN 4-Piperidineethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-38-5 HCAPLUS

CN D-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

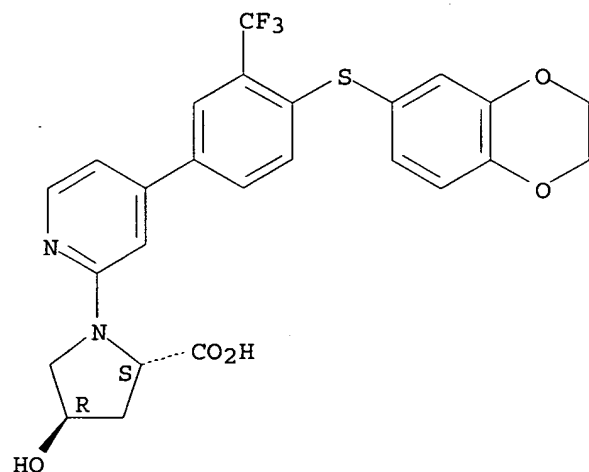
Absolute stereochemistry.



RN 388118-39-6 HCAPLUS

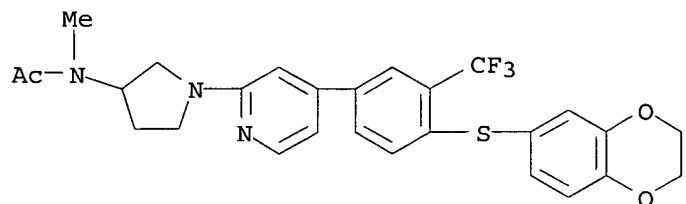
CN L-Proline, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



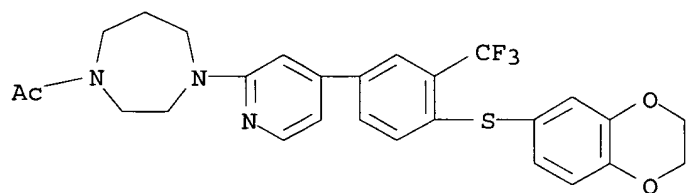
RN 388118-40-9 HCAPLUS

CN Acetamide, N-[1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)



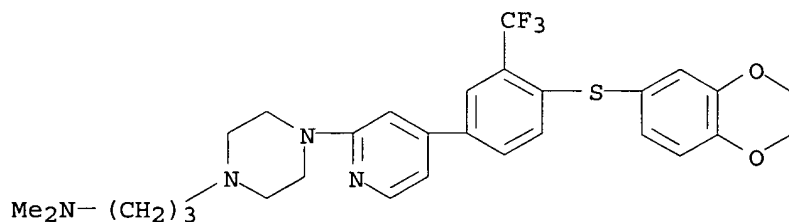
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CN 1H-1,4-Diazepine, 1-acetyl-4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]hexahydro- (9CI) (CA INDEX NAME)



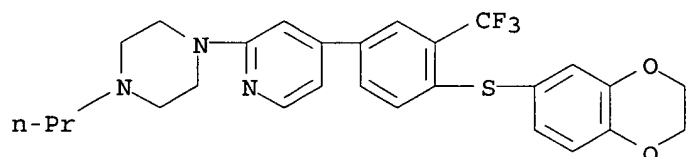
RN 388118-42-1 HCAPLUS

CN 1-Piperazinepropanamine, 4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



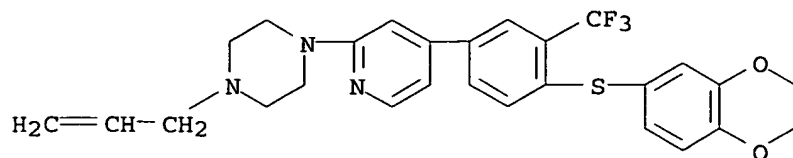
RN 388118-43-2 HCAPLUS

CN Piperazine, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-propyl- (9CI) (CA INDEX NAME)



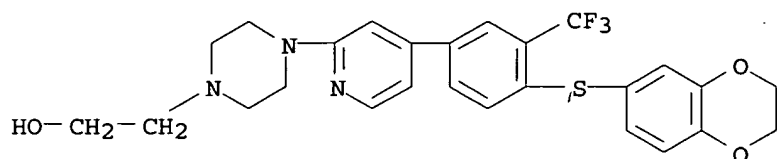
RN 388118-44-3 HCAPLUS

CN Piperazine, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]-4-(2-propenyl)- (9CI) (CA INDEX NAME)



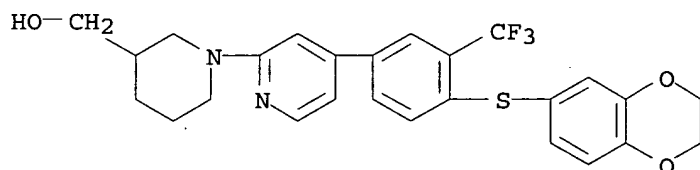
RN 388118-45-4 HCAPLUS

CN 1-Piperazineethanol, 4-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 388118-46-5 HCAPLUS

CN 3-Piperidinemethanol, 1-[4-[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)thio]-3-(trifluoromethyl)phenyl]-2-pyridinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:338638 HCAPLUS

DOCUMENT NUMBER: 134:350265

TITLE: Water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer dye pairs and conjugates for assays and stains

INVENTOR(S): Lee, Linda G.; Graham, Ronald J.; Werner, William E.; Swartzman, Elana; Lu, Lily

PATENT ASSIGNEE(S): PE Corporation, USA

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

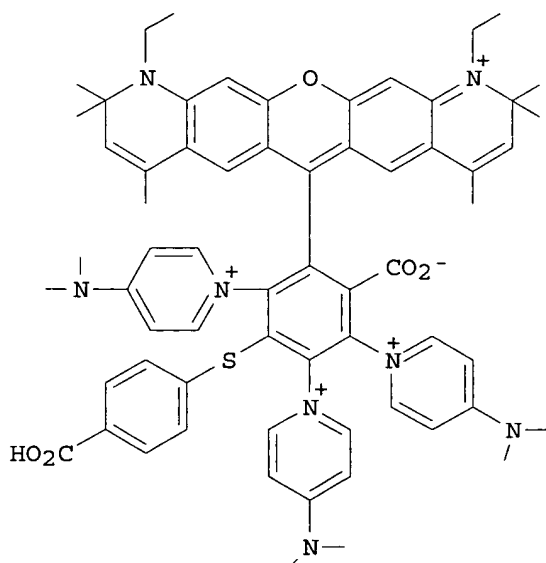
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 6191278 B1 20010220 US 1999-433093 19991103
US 6372907 B1 20020416 US 2000-661206 20000914
CA 2358923 AA 20010510 CA 2000-2358923 20001101
EP 1141137 A1 20011010 EP 2000-982085 20001101
EP 1141137 B1 20031008
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 2003514058 T2 20030415 JP 2001-535469 20001101
AT 251658 E 20031015 AT 2000-982085 20001101
AU 770445 B2 20040219 AU 2001-19157 20001101
PRIORITY APPLN. INFO.: US 1999-433093 A 19991103
US 2000-661206 A 20000914
WO 2000-US30414 W 20001101
OTHER SOURCE(S): MARPAT 134:350265
GI



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AB The present invention provides novel, water-soluble, red-emitting fluorescent rhodamine dyes and red-emitting fluorescent energy-transfer dye pairs, as well as labeled conjugates comprising the same and methods for their use. The dyes, energy-transfer dye pairs and labeled conjugates are useful in a variety of aqueous-based applications, particularly in assays involving staining of cells, protein binding, and/or anal. of nucleic acids, such as hybridization assays and nucleic acid sequencing. A fluorescent-linked immunosorbent assay (FLISA) for human IL-8 used anti-human IL-8 antibody conjugated with rhodamine dye I (preparation given) and monoclonal anti-human IL-8 antibody-coated beads.

IT 339150-30-0P

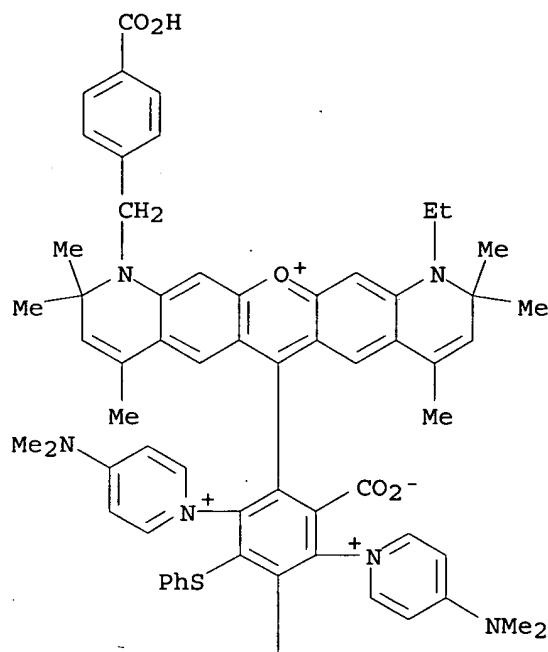
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(as rhodamine dye; water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer dye pairs and conjugates for assays and stains)

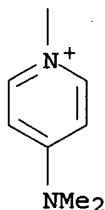
RN 339150-30-0 HCAPLUS

CN Pyridinium, 1,1',1''-[6-carboxy-5-[1-[(4-carboxyphenyl)methyl]-11-ethyl-1,2,10,11-tetrahydro-2,2,4,8,10,10-hexamethylpyrano[3,2-g:5,6-g']diquinolin-13-ium-6-yl]-3-(phenylthio)-1,2,4-benzenetriyl]tris[4-(dimethylamino)-, mono(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-A



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IT 339150-31-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

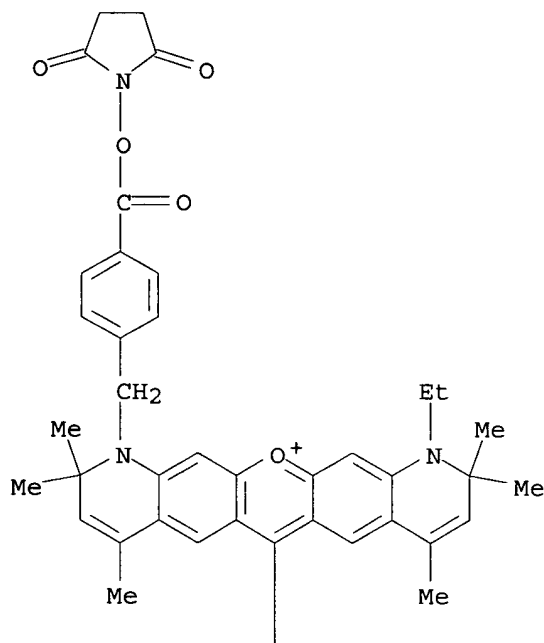
(water-soluble red-emitting fluorescent rhodamine dyes and energy-transfer dye pairs and conjugates for assays and stains)

RN 339150-31-1 HCAPLUS

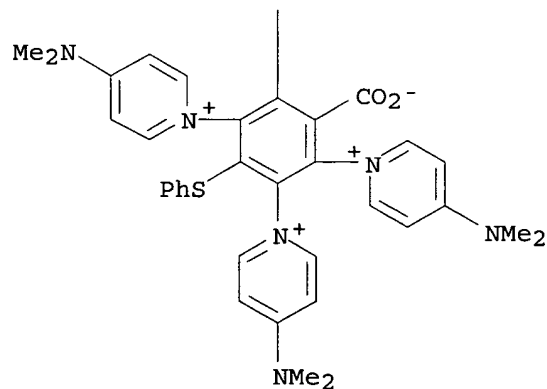
CN Pyridinium, 1,1',1''-[6-carboxy-5-[1-[[4-[(2,5-dioxo-1-

pyrrolidinyloxy]carbonyl]phenyl]methyl]-11-ethyl-2,2,4,8,10,10-hexamethylpyrano[3,2-g:5,6-g']diquinolin-13-ium-6-yl]-3-(phenylthio)-1,2,4-benzenetriyl]tris[4-(dimethylamino)-, mono(inner salt) (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:131227 HCAPLUS
 DOCUMENT NUMBER: 134:179914

TITLE: Water-soluble rhodamine dyes and conjugates thereof
 INVENTOR(S): Lee, Linda G.; Graham, Ronald J.; Werner, William E.;
 Swartzman, Elana; Lu, Lily
 PATENT ASSIGNEE(S): PE Corp., USA
 SOURCE: U.S., 52 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6191278	B1	20010220	US 1999-433093	19991103
US 6372907	B1	20020416	US 2000-661206	20000914
CA 2358923	AA	20010510	CA 2000-2358923	20001101
WO 2001032783	A1	20010510	WO 2000-US30414	20001101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1141137	A1	20011010	EP 2000-982085	20001101
EP 1141137	B1	20031008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003514058	T2	20030415	JP 2001-535469	20001101
AT 251658	E	20031015	AT 2000-982085	20001101
AU 770445	B2	20040219	AU 2001-19157	20001101
ES 2206333	T3	20040516	ES 2000-982085	20001101
US 2003055257	A1	20030320	US 2001-7253	20011024
PRIORITY APPLN. INFO.:			US 1999-433093	A3 19991103
			US 2000-661206	A 20000914
			WO 2000-US30414	W 20001101

OTHER SOURCE(S): MARPAT 134:179914

AB The present invention provides novel, water-soluble, red-emitting fluorescent rhodamine dyes and red-emitting fluorescent energy-transfer dye pairs, as well as labeled conjugates comprising the same and methods for their use. The dyes, energy-transfer dye pairs and labeled conjugates are useful in a variety of aqueous-based applications, particularly in assays involving staining of cells, protein binding, and/or anal. of nucleic acids, such as hybridization assays and nucleic acid sequencing.

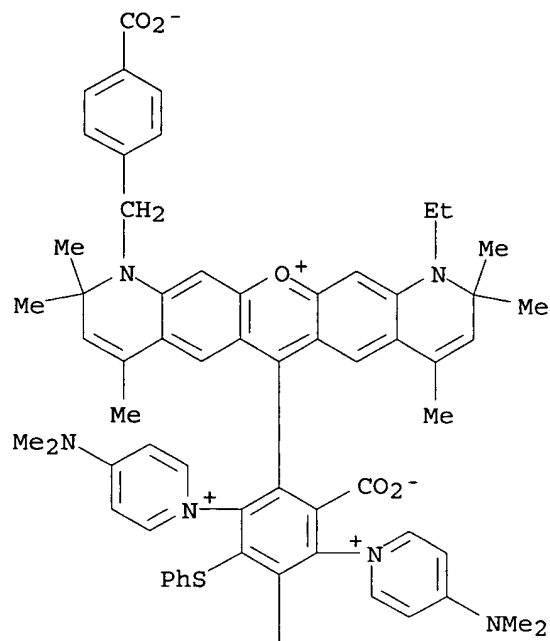
IT 326801-79-0P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (blue dye; production of fluorescent rhodamine dyes for biochem. labeling)

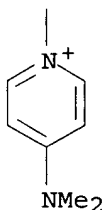
RN 326801-79-0 HCAPLUS

CN Pyridinium, 1,1',1''-[6-carboxy-5-[1-[(4-carboxyphenyl)methyl]-11-ethyl-1,2,10,11-tetrahydro-2,2,4,8,10,10-hexamethylpyrano[3,2-g:5,6-g']diquinol-13-ium-6-yl]-3-(phenylthio)-1,2,4-benzenetriyl]tris[4-(dimethylamino)-, bis(inner salt) (9CI) (CA INDEX NAME)

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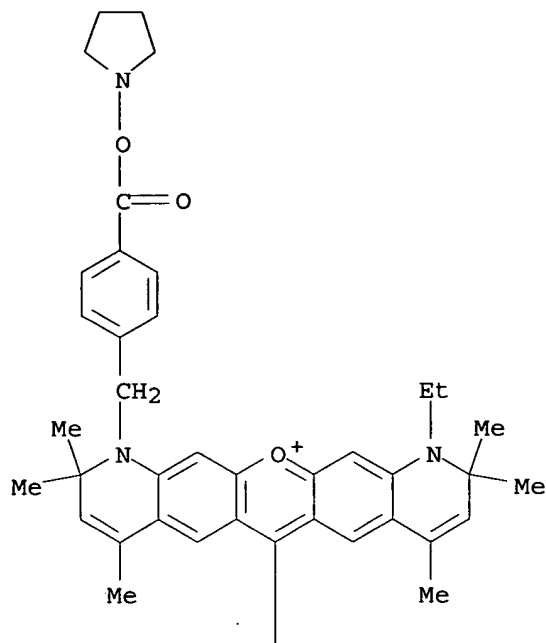


PAGE 2-A

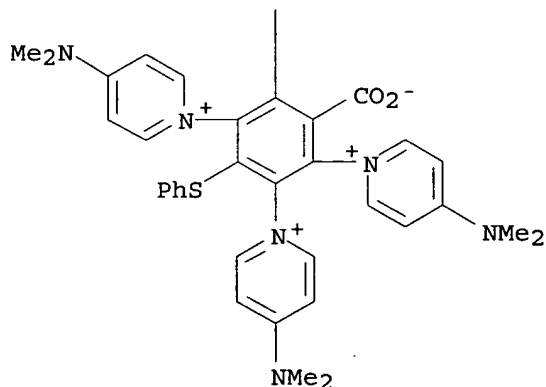


IT **326801-91-6P**
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); TEM
 (Technical or engineered material use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (blue dye; production of fluorescent rhodamine dyes for biochem. labeling)
 RN 326801-91-6 HCAPLUS
 CN Pyridinium, 1,1',1''-[6-carboxy-5-[1-ethyl-1,2,10,11-tetrahydro-
 2,2,4,8,10,10-hexamethyl-11-[[4-[(1-pyrrolidinyloxy)carbonyl]phenyl]methyl
]pyrano[3,2-g:5,6-g']diquinolin-13-ium-6-yl]-3-(phenylthio)-1,2,4-
 benzenetriyl]tris[4-(dimethylamino)-, mono(inner salt) (9CI) (CA INDEX
 NAME)

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PAGE 2-A



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:31481 HCAPLUS

DOCUMENT NUMBER: 134:100859

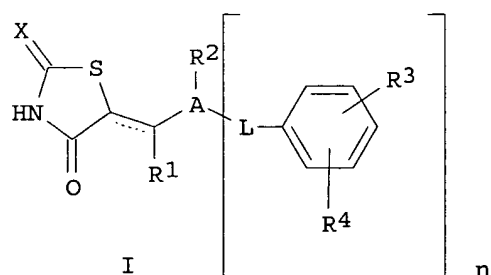
TITLE: Preparation of 2,4-dioxothiazolidines and 4-oxo-2-thioxothiazolidines having telomerase inhibitory activity and methods of their use

INVENTOR(S): Chin, Allison C.; Holcomb, Ryan; Piatyszek, Mieczyslaw A.; Singh, Upinder; Tolman, Richard L.; Akama, Tsutomu; Kanda, Yutaka; Asai, Akira; Yamashita,

PATENT ASSIGNEE(S): Yoshinori; Endo, Kaori; Yamaguchi, Hiroyuki
 SOURCE: Geron Corporation, USA; Kyowa Hakko Kogyo Co., Ltd.
 PCT Int. Appl., 211 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002377	A1	20010111	WO 2000-US18211	20000630
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2001072592	A2	20010321	JP 1999-307576	19991028
CA 2341253	AA	20010111	CA 2000-2341253	20000630
EP 1109796	A1	20010627	EP 2000-950282	20000630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6518268	B1	20030211	US 2000-608636	20000630
JP 2003507473	T2	20030225	JP 2001-518671	20000630
US 2002115700	A1	20020822	US 2002-77738	20020213
PRIORITY APPLN. INFO.:				
			JP 1999-187616	A 19990701
			US 1999-142173P	P 19990701
			JP 1999-307576	A 19991028
			US 2000-608861	A1 20000630
			WO 2000-US18211	W 20000630

OTHER SOURCE(S): MARPAT 134:100859
 GI



AB Thiazolidinedione compds. (shown as I; e.g. 5-((2-(4-chlorophenylthio)-5-nitrophenyl)methylene)-2,4-thiazolidinedione), compns., and methods of inhibiting telomerase activity in vitro and treatment of telomerase-mediated conditions or diseases ex vivo and in vivo are provided. In I, X = O or S; the dashed bond is a single or double bond; A = aryl or heteroaryl; R1 = H or lower alkyl; R2, R3 and R4 are independently selected from H, halo, alkyl, aryl, hydroxyl, alkoxy, aryloxy, aralkoxy, cyano, nitro, alkylcarbamido, arylcarbamido,

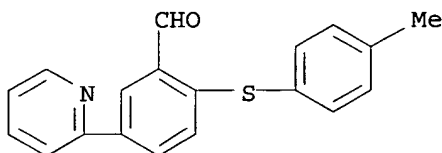
dialkylcarbamido, diarylcarbamido, alkylarylcarbamido, alkylthiocarbamido, arylthiocarbamido, dialkylthiocarbamido, diarylthiocarbamido, alkylarylthiocarbamido, amino, alkylamino, arylamino, dialkylamino, diarylamino, arylalkylamino, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, dialkylaminocarbonyl, diarylaminocarbonyl, arylalkylaminocarbonyl, alkylcarbonyloxy, arylcarbonyloxy, carboxyl, alkoxy carbonyl, aryloxy carbonyl, sulfo, alkylsulfonylamido, arylsulfonylamido, alkylsulfonyl, arylsulfonyl, alkylsulfinyl, arylsulfinyl and heteroaryl; L is a direct bond or a linking group having from 1 to 3 unsubstituted or substituted C, N, O or S atoms; and n = 1, 2. A pharmaceutically acceptable salt thereof is also claimed. The methods, compds. and compns. of the invention may be employed alone, or in combination with other pharmacol. active agents in the treatment of conditions or diseases mediated by telomerase activity, such as in the treatment of cancer. Also disclosed are novel methods for assaying or screening for inhibitors of telomerase activity. More than 200 example preps. are included, but the methods of preparation are not claimed.

IT 319454-78-9P, 2-[(4-Methylphenyl)thio]-5-(2-pyridyl)benzaldehyde
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; for preparation of 2,4-dioxothiazolidines and 4-oxo-2-thioxothiazolidines having telomerase inhibitory activity)

RN 319454-78-9 HCAPLUS

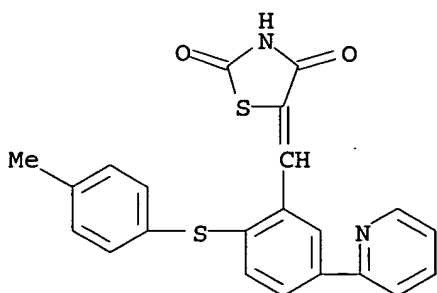
CN Benzaldehyde, 2-[(4-methylphenyl)thio]-5-(2-pyridinyl)- (9CI) (CA INDEX NAME)



IT 319453-29-7P, 5-((2-(4-Methylphenylthio)-5-(2-pyridinyl)phenyl)methylene)-2,4-thiazolidinedione
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2,4-dioxothiazolidines and 4-oxo-2-thioxothiazolidines having telomerase inhibitory activity and methods of use)

RN 319453-29-7 HCAPLUS

CN 2,4-Thiazolidinedione, 5-[[2-[(4-methylphenyl)thio]-5-(2-pyridinyl)phenyl]methylene]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:527570 HCAPLUS

DOCUMENT NUMBER: 131:249432

TITLE: Mono- and bimolecular reactions of electrogenerated diaryl sulfide radical cations and dications

AUTHOR(S): Zhuikov, V. V.

CORPORATE SOURCE: Kazan State University, Kazan, Russia

SOURCE: Russian Journal of General Chemistry (Translation of Zhurnal Obshchei Khimii) (1999), 69(3), 502-503

CODEN: RJGCEK; ISSN: 1070-3632

PUBLISHER: MAIK Nauka/Interperiodica Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The electrochem. oxidation of diaryl sulfides was carried out in MeCN/0.01M Et4NBF4 on Pt oxide rotating disk electrode. By the switching technique formation of short-lived radical cations was detected. The electrochem. oxidation of diaryl sulfides ((p-RC6H4)2S, R = H, MeO, Me, Cl) on the Pt oxide rotating disk electrode has two waves and the shape of the wave and the other dependencies suggest that the chemical reaction of the radical cations is second order. Oxidation of Ph2S in the presence of pyridine leads to formation of N-(p-phenylthiophenyl)pyridinium salts with the yields considerably lower going from pyridine to γ -picoline to α -picoline to 2,6-lutidine, which evidently arise from different basicities and nucleophilicities of the pyridine derivs. Intramol. electronic interactions and the nature of approaching foreign nucleophilic reagent can affect the mechanism of reaction of the intermediates.

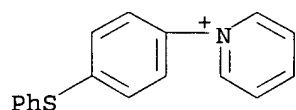
IT 92639-74-2DP, salts 117186-17-1DP, salts

244215-09-6DP, salts 244215-11-0DP, salts

RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation) (preparation in electrochem. oxidation of di-Ph disulfide in presence of pyridine)

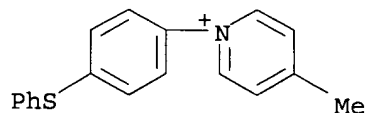
RN 92639-74-2 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)



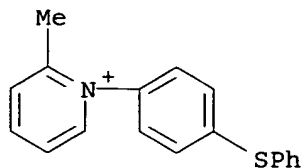
RN 117186-17-1 HCAPLUS

CN Pyridinium, 4-methyl-1-[4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)

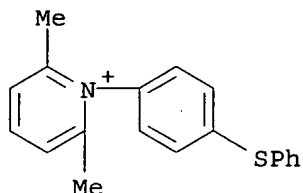


RN 244215-09-6 HCAPLUS

CN Pyridinium, 2-methyl-1-[4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 244215-11-0 HCAPLUS
 CN Pyridinium, 2,6-dimethyl-1-[4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:779499 HCAPLUS
 DOCUMENT NUMBER: 130:88236
 TITLE: Guest-host type liquid crystal display with improved brightness
 INVENTOR(S): Iwanaga, Hironori; Naito, Katsuyuki
 PATENT ASSIGNEE(S): Toshiba Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10316970	A2	19981202	JP 1997-71587	19970325
US 6057906	A	20000502	US 1997-825179	19970327
KR 228465	B1	19991101	KR 1997-11507	19970329
PRIORITY APPLN. INFO.:			JP 1996-75614	A 19960329
			JP 1996-236780	A 19960906
			JP 1997-65145	A 19970318

OTHER SOURCE(S): MARPAT 130:88236

AB The title display utilizes at least 1 dichroic dye containing thiocarbonyl, thioester, dithioester, selenocarbonyl, selenoester and/or diselenoester. The liquid crystal composition may contain a proton donor and a proton acceptor.

IT 218154-82-6

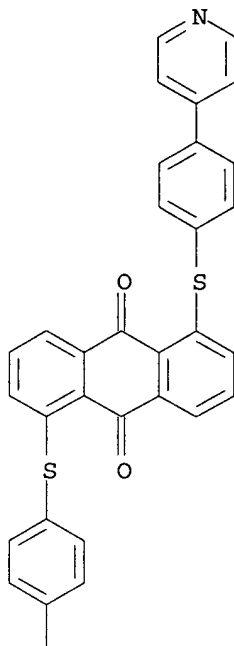
RL: MOA (Modifier or additive use); USES (Uses)

(proton acceptor in liquid crystal composition for guest-host type liquid crystal display)

RN 218154-82-6 HCAPLUS

CN 9,10-Anthracenedione, 1-[(4-ethylphenyl)thio]-5-[[4-(4-pyridinyl)phenyl]thio]- (9CI) (CA INDEX NAME)

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L12 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:621902 HCAPLUS

DOCUMENT NUMBER: 117:221902

TITLE: Electrochemical reactions of heteroorganic compounds

AUTHOR(S): Kargin, Yu. M.; Zhuikov, V. V.; Budnikova, Yu. G.;
Fattakhova, D. S.

CORPORATE SOURCE: Kazan. Gos. Univ., Kazan, Russia

SOURCE: Elektrokhimiya (1992), 28(4), 615-28

CODEN: ELKKAX; ISSN: 0424-8570

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Processes are described of intermediates of heteroorg. compds. during fragmentation of ion radicals (with bond cleavage) and disproportionation and dimerization of cation radicals. Special attention is paid to reaction of Si- and P-containing compds. The electrochem. is described. Cation radicals with lower electron d. were characterized by the 2nd order reactions.

IT 92639-75-3P 92639-76-4P

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, in electrochem. reaction of di-Ph sulfide in presence of organic additives)

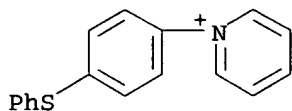
RN 92639-75-3 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 92639-74-2

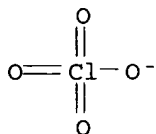
CMF C17 H14 N S



CM 2

CRN 14797-73-0

CMF Cl O4



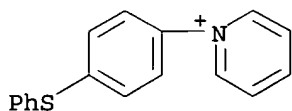
RN 92639-76-4 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 92639-74-2

CMF C17 H14 N S

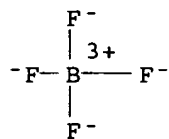


CM 2

CRN 14874-70-5

CMF B F4

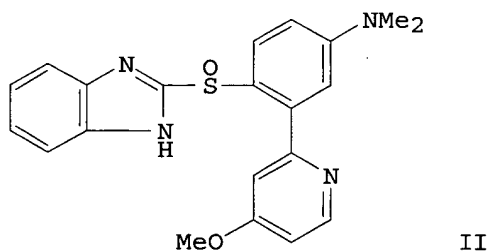
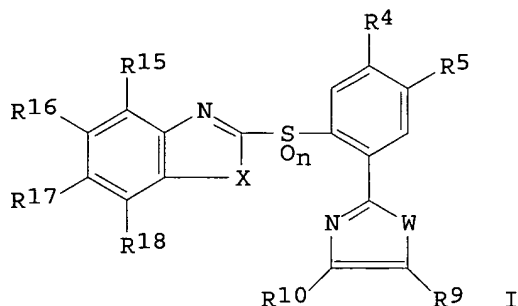
CCI CCS



L12 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:559137 HCAPLUS
 DOCUMENT NUMBER: 115:159137
 TITLE: Preparation of 2-(heteroarylphenylthio)benzimidazoles
 and related compounds as antiinflammatories and
 gastric acid secretion inhibitors
 PATENT ASSIGNEE(S): Fisons PLC, UK
 SOURCE: Austrian, 21 pp.
 CODEN: AUXXAK
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AT 392788	B	19910610	AT 1988-223	19880203
AT 8800223	A	19901115		
PRIORITY APPLN. INFO.:			AT 1988-223	19880203
OTHER SOURCE(S):	MARPAT 115:159137			

GI

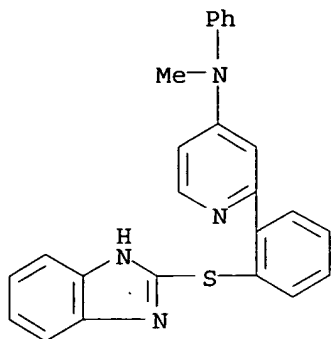


AB Title compds. [I; X = O, NR19; W = NR8, CR7:CR8; R4,R5 = H, alkyl, alkoxy, halo, amino; R7,R8 = H, alkyl, alkoxy, amino, morpholino, (substituted) alkoxy; R9,R10 = H, alkyl; R9R10 = atoms to complete a (halo-substituted) Ph ring; R15-R18 = H, alkyl, halo, alkoxy, NO2, amino, (modified) CO2H; R19 = H, (substituted) alkyl; n = 0,1], were prepared as antiinflammatories and gastric acid secretion inhibitors (no data). Thus, title compound II was prepared starting from 4-O2NC6H4N2BF4 and 4-methoxypyridine N-oxide and proceeding via 2-(2-mercapto-5-nitrophenyl)-4-methoxypyridine N,N-dimethylcarbonate.

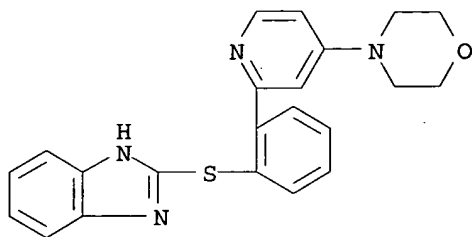
IT 115741-52-1P 115741-80-5P 115741-82-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as antiinflammatory and gastric acid secretion inhibitor)

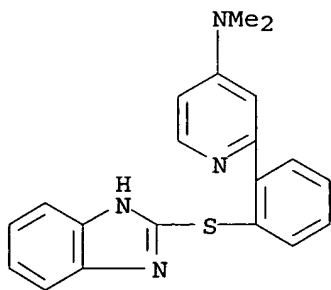
RN 115741-52-1 HCAPLUS

CN 4-Pyridinamine, 2-[2-(1H-benzimidazol-2-ylthio)phenyl]-N-methyl-N-phenyl-
(9CI) (CA INDEX NAME)

RN 115741-80-5 HCAPLUS

CN 1H-Benzimidazole, 2-[[2-[4-(4-morpholinyl)-2-pyridinyl]phenyl]thio]- (9CI)
(CA INDEX NAME)

RN 115741-82-7 HCAPLUS

CN 4-Pyridinamine, 2-[2-(1H-benzimidazol-2-ylthio)phenyl]-N,N-dimethyl- (9CI)
(CA INDEX NAME)

L12 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:590253 HCAPLUS

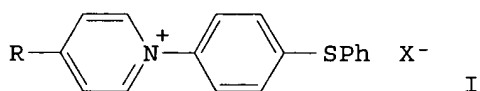
DOCUMENT NUMBER: 109:190253

TITLE: Preparation of N-[p-phenylthio)phenyl]pyridinium or
-picolinium salts

INVENTOR(S): Latypova, V. Z.; Zhuikov, V. V.; Kargin, Yu. M.

PATENT ASSIGNEE(S): Kazan State University, USSR
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret. 1987, (42), 81.
 CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1351926	A1	19871115	SU 1986-4029681	19860224
PRIORITY APPLN. INFO.: GI			SU 1986-4029681	19860224



AB Title compds. (I) (R = H, Me; X = ClO₄, BF₄) are prepared by electrochem. oxidation of Ph₂S on a Pt electrode in MeCN in the presence of NaClO₄ or Et₄N⁺ BF₄⁻ and pyridine or γ-picoline at a 5-15 mA/cm² c.d., at 15-25°, and change in the electrolysis potential from 1.1 to 2.2 V with subsequent evaporation of a solvent, washing the residue with a HClO₄ solution, and extracting I with CHCl₃.

IT **92639-75-3P 92639-76-4P 117186-18-2P 117186-19-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

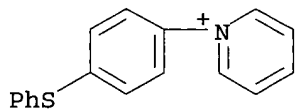
RN 92639-75-3 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 92639-74-2

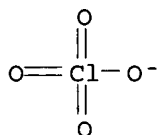
CMF C17 H14 N S



CM 2

CRN 14797-73-0

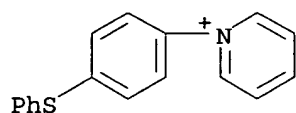
CMF Cl O4



RN 92639-76-4 HCAPLUS
 CN Pyridinium, 1-[4-(phenylthio)phenyl]-, tetrafluoroborate(1-) (9CI) (CA
 INDEX NAME)

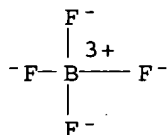
CM 1

CRN 92639-74-2
 CMF C17 H14 N S



CM 2

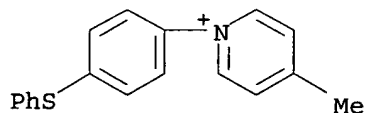
CRN 14874-70-5
 CMF B F4
 CCI CCS



RN 117186-18-2 HCAPLUS
 CN Pyridinium, 4-methyl-1-[4-(phenylthio)phenyl]-, perchlorate (9CI) (CA
 INDEX NAME)

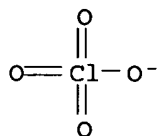
CM 1

CRN 117186-17-1
 CMF C18 H16 N S



CM 2

CRN 14797-73-0
 CMF Cl O4

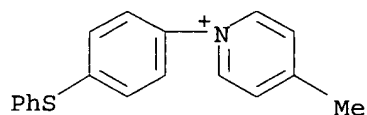


RN 117186-19-3 HCAPLUS
 CN Pyridinium, 4-methyl-1-[4-(phenylthio)phenyl]-, tetrafluoroborate(1-)
 (9CI) (CA INDEX NAME)

CM 1

CRN 117186-17-1

CMF C18 H16 N S

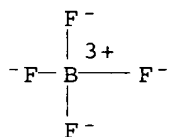


CM 2

CRN 14874-70-5

CMF B F4

CCI CCS



L12 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:493009 HCAPLUS
 DOCUMENT NUMBER: 109:93009
 TITLE: Preparation of heterocyclic-substituted azoles as
 gastric secretion inhibitors and antiinflammatories
 INVENTOR(S): Cox, David; Dowlatsahi, Hossein Ali; Hall, David
 Edward Hall; Ingall, Anthony Howard; Suschitzky, John
 Louis
 PATENT ASSIGNEE(S): Fisons PLC, UK
 SOURCE: Eur. Pat. Appl., 36 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 262845	A1	19880406	EP 1987-308318	19870921
R: ES, GR				
WO 8802367	A1	19880407	WO 1987-GB656	19870921
W: AU, DK, FI, JP, KR, NO				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8780244	A1	19880421	AU 1987-80244	19870921
AU 604771	B2	19910103		
EP 283504	A1	19880928	EP 1987-906433	19870921

R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE

JP 01501473	T2	19890525	JP 1987-505851	19870921
ZA 8707206	A	19880727	ZA 1987-7206	19870924
US 4900751	A	19900213	US 1987-100584	19870924
FI 8802394	A	19880520	FI 1988-2394	19880520
DK 8802876	A	19880701	DK 1988-2876	19880525
NO 8802321	A	19880711	NO 1988-2321	19880526
PRIORITY APPLN. INFO.:			GB 1986-23299	A 19860927
			GB 1986-23301	A 19860927
			GB 1987-5017	A 19870304
			GB 1987-19644	A 19870820
			US 1986-918832	A2 19861014
			WO 1987-GB656	A 19870921

OTHER SOURCE(S): MARPAT 109:93009

GI For diagram(s), see printed CA Issue.

AB The title compds. [I; R1, R2 = H, alkyl; R1R2 = atoms to complete an (un)substituted, fused benzo or pyrido ring; R3-R10 = H, alkyl, PhCO, amino (un)modified CO₂H, (un)substituted alkoxy, heterocyclyl, etc.; X = O, S, R12N; R12 = H, (un)substituted alkyl; A = 5- or 6-membered, fully unsatd. carbocycle or heterocycle; B = 5- or 6-membered, fully unsatd., N-containing heterocycle; n = 0,1] and their pharmaceutically acceptable salts were prepared as gastric secretion and inflammation inhibitors (no data). 4-O₂NC₆H₄N₂⁺ BF₄⁻ was treated with 4-methoxypyridine 1-oxide to give 2-(4-methoxy-2-pyridinyl)-4-nitrophenol, which was esterified with Me₂NCSCl and converted in 4 steps to give 4-(dimethylamino)-2-(4-methoxy-2-pyridinyl)phenyl disulfide. The latter was refluxed with 2-chlorobenzimidazole and NaBH₃CN in HOAc/Me₂CHOH to give (phenylthio)benzimidazole II.

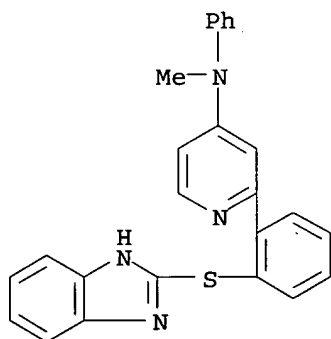
IT 115741-52-1P 115741-80-5P 115741-82-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as antiinflammatory and gastric secretion inhibitor)

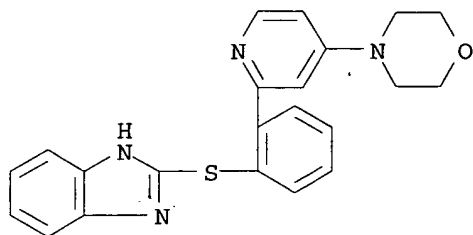
RN 115741-52-1 HCAPLUS

CN 4-Pyridinamine, 2-[2-(1H-benzimidazol-2-ylthio)phenyl]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)

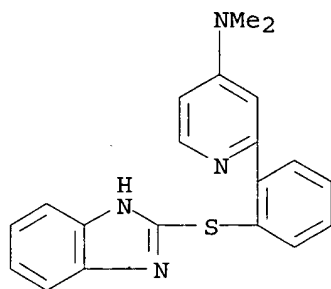


RN 115741-80-5 HCAPLUS

CN 1H-Benzimidazole, 2-[[2-[4-(4-morpholinyl)-2-pyridinyl]phenyl]thio]- (9CI) (CA INDEX NAME)



RN 115741-82-7 HCAPLUS

CN 4-Pyridinamine, 2-[2-(1H-benzimidazol-2-ylthio)phenyl]-N,N-dimethyl- (9CI)
(CA INDEX NAME)

L12 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:590876 HCAPLUS

DOCUMENT NUMBER: 101:190876

TITLE: Electrochemical reactions of sulfur-, selenium-, and tellurium-containing organic compounds. XIII.
Oxidation of diphenyl sulfideAUTHOR(S): Latypova, V. Z.; Yakovleva, O. G.; Zhuikov, V. V.;
Khusaenov, N. M.; Chichirov, A. A.; Kargin, Yu. M.;
Il'yasov, A. V.; Ismaev, I. E.

CORPORATE SOURCE: Kazan. Univ., Kazan, USSR

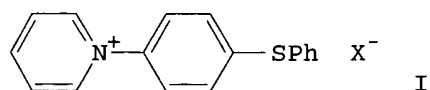
SOURCE: Zhurnal Obshchei Khimii (1984), 54(5), 1085-9

CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



I

AB The electrochem. oxidation of Ph₂S in MeCN-NaClO₄ produced the cation radical, which disproportionated to form the dication; the latter reacted with certain nucleophiles. When pyridine was present, pyridinium salts I (X = ClO₄, BF₄) could be obtained.

IT 92639-75-3P 92639-76-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

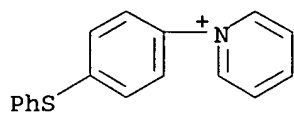
RN 92639-75-3 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 92639-74-2

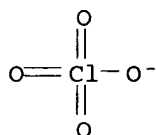
CMF C17 H14 N S



CM 2

CRN 14797-73-0

CMF Cl O4



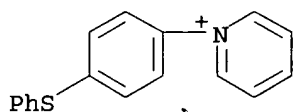
RN 92639-76-4 HCAPLUS

CN Pyridinium, 1-[4-(phenylthio)phenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 92639-74-2

CMF C17 H14 N S

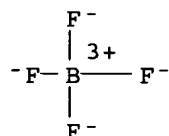


CM 2

CRN 14874-70-5

CMF B F4

CCI CCS



L12 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:125895 HCAPLUS

DOCUMENT NUMBER: 98:125895

TITLE: 2,6-Diarylpyridinecarboxylic acids and their therapeutic utility

INVENTOR(S): Skaletzsky, Louis Leonard

PATENT ASSIGNEE(S): Upjohn Co. , USA

SOURCE: Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

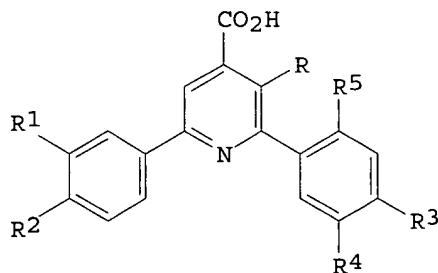
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

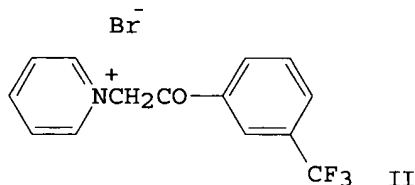
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 64385	A1	19821110	EP 1982-302180	19820428
EP 64385	B1	19860402		
R: BE, CH, DE, FR, GB, IT, NL, SE				
US 4377586	A	19830322	US 1981-259135	19810430
CA 1182397	A1	19850212	CA 1982-398962	19820322
ZA 8202249	A	19830223	ZA 1982-2249	19820401
JP 57185263	A2	19821115	JP 1982-70550	19820428
US 4474791	A	19841002	US 1982-449101	19821213
CA 1179676	A2	19841218	CA 1984-446371	19840130
PRIORITY APPLN. INFO.:			US 1981-259135	A 19810430
			CA 1982-398962	A3 19820322

GI



I



II

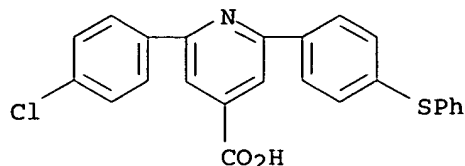
AB Antihypertensive (no data) diarylpyridinecarboxylates I [R = H, Me; R₁ = H, F₃C; R₂ = H, Cl, F, Br, iodo, Me, CF₃; R₃ = H, Me, halo, F₃C, Ph, PhO, 4-FC₆H₄, 4-FC₆H₄O; R₄ = H, Cl, F, F₃C, Me; R₃R₄ = (CH₂)₄, benzo; R₅ = H, alkoxy, acetoxy] and their salts were prepared Thus, cyclocondensation of 4-BrC₆H₄COCH:CHCO₂H, the pyridinium salt II and NH₄OAc in refluxing MeOH containing HOAc gave 40% I (R = R₁ = R₃ = R₅ = H; R₂ = Br; R₄ = F₃C).

IT 85019-10-9P 85031-37-4P

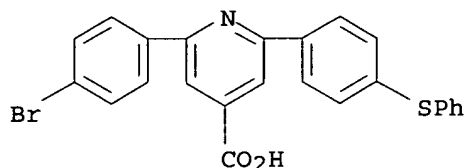
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 85019-10-9 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-(4-chlorophenyl)-6-[4-(phenylthio)phenyl]-
(9CI) (CA INDEX NAME)



RN 85031-37-4 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-(4-bromophenyl)-6-[4-(phenylthio)phenyl]-
(9CI) (CA INDEX NAME)

L12 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:448149 HCAPLUS

DOCUMENT NUMBER: 77:48149

TITLE: N-Phenylpyridinium salts. 2. Reactivity of
N-(3-nitro-4-chlorophenyl)pyridinium chloride

AUTHOR(S): Lipke, Bodo; Lachmann, Christel; Schmidt, Reinhard

CORPORATE SOURCE: Sek. Chem., Humboldt-Univ. Berlin, Berlin, Ger. Dem.
Rep.

SOURCE: Zeitschrift fuer Chemie (1972), 12(3), 103-4

CODEN: ZECEAL; ISSN: 0044-2402

DOCUMENT TYPE: Journal

LANGUAGE: German

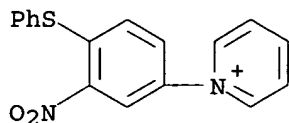
GI For diagram(s), see printed CA Issue.

AB The title compound (I) reacted with $N_2H_4 \cdot H_2O$ in boiling EtOH to give the hydrazino compound II only in small yields and as the benzylidene derivative III. III was obtained in increased yields by reaction of I with $PhCH:NNH_2$. I and $PhNHNH_2$ gave the triazolyl derivative IV. I and $H_2NNHCSNH_2$ or $PhSH$ gave the corresponding thio ethers, which were cleaved with pyrrolidine to give 3,4-O₂N(PhS)C₆H₃NH₂ and 3,4-O₂N(2-HO₂CC₆H₄S)C₆-H₃NH₂, resp. Similar cleavage of IV gave the expected 5-amino derivative V.

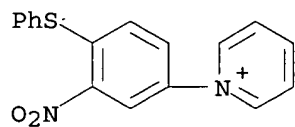
IT 37059-28-2P 37059-29-3P 37059-30-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 37059-28-2 HCAPLUS

CN Pyridinium, 1-[3-nitro-4-(phenylthio)phenyl]-, chloride (9CI) (CA INDEX
NAME)● Cl⁻

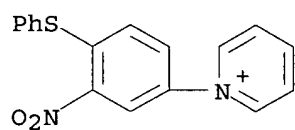
RN 37059-29-3 HCAPLUS
 CN Pyridinium, 1-[3-nitro-4-(phenylthio)phenyl]-, iodide (9CI) (CA INDEX NAME)



RN 37059-30-6 HCAPLUS
 CN Pyridinium, 1-[3-nitro-4-(phenylthio)phenyl]-, nitrate (9CI) (CA INDEX NAME)

CM 1

CRN 47226-33-5
 CMF C17 H13 N2 O2 S



CM 2

CRN 14797-55-8
 CMF N O3

